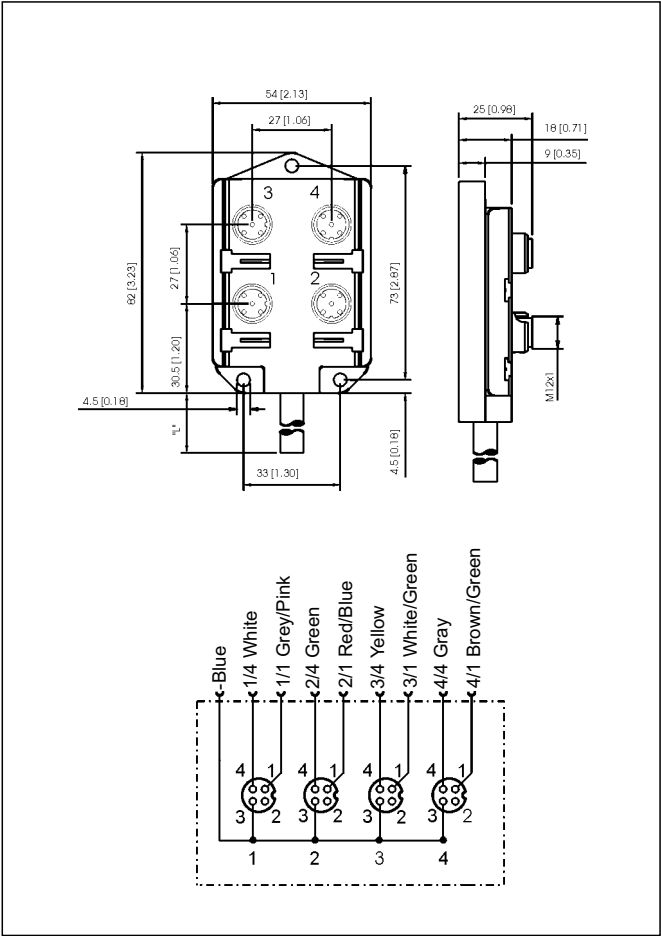


# DISTRIBUTION BOXES(DBR-SERIES)

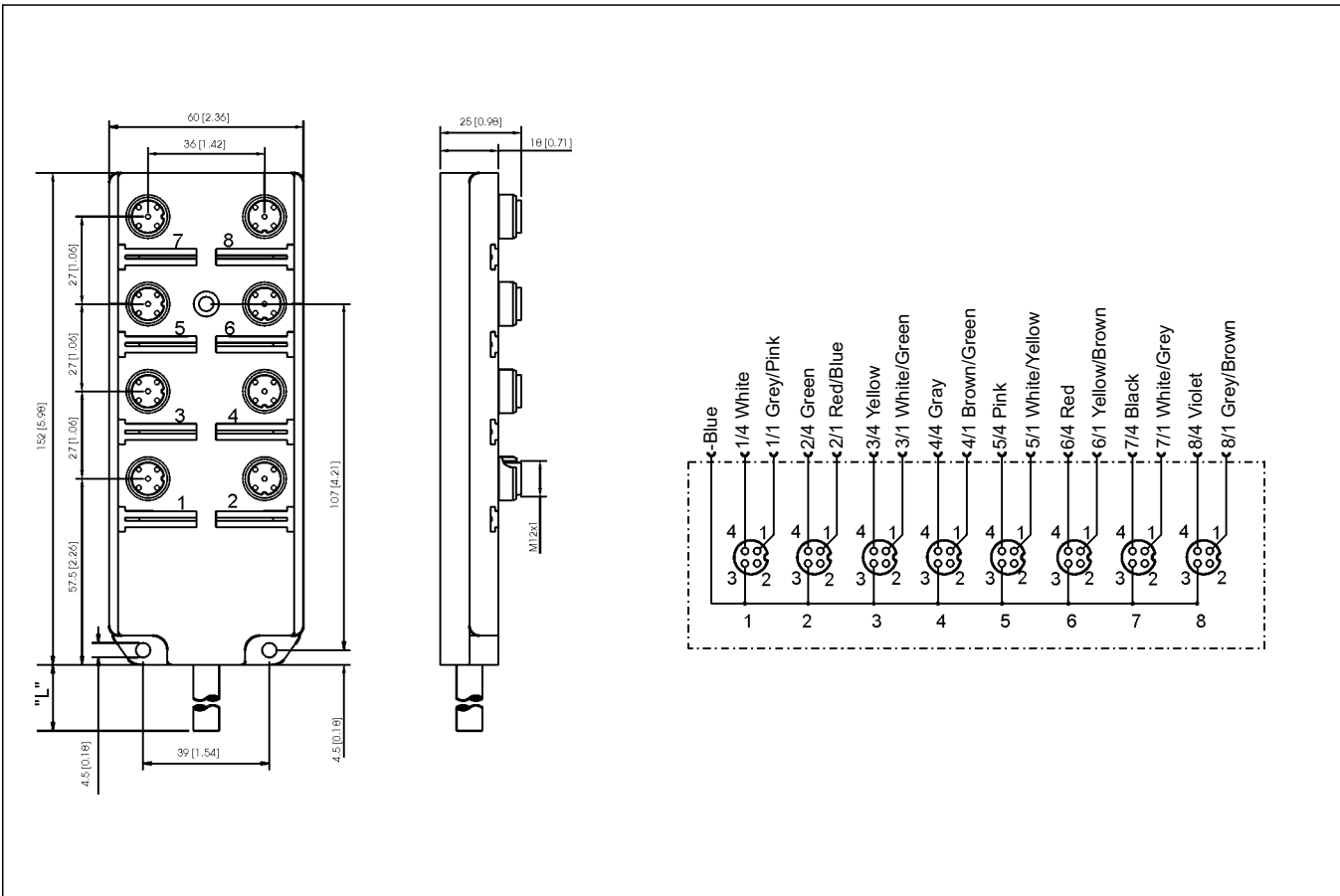
## View



## Dimensional data



## Dimensional data



# DISTRIBUTION BOXES (DBR-SERIES)

## Description

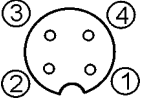
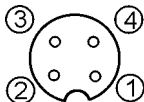
Distribution Boxes,4-8 port-Cable Version

4 poles 3 wires module for DC applications,with two dust covers and ten attachable molds

## Technical Data

- |   |  |
|---|--|
| <p><b>1. Application Class:</b> -15°C to +90°C</p> <p><b>2. Materials:</b><br/>                 Housing: Nylon 6/6<br/>                 Contact: Brass,gold over nickel plating<br/>                 Receptacle Shell: Brass.nickel plated<br/>                 Insert: PUR(Polyurethane),black<br/>                 O-Ring: Viton</p> <p><b>3. Electrical Data:</b><br/>                 Contact Resistance: <math>\leq 5m\Omega</math><br/>                 Current Rating: 4 Amps per outlet<br/>                 12 Amp max per box<br/>                 Working Voltage: 60VAC/75VDC<br/>                 Insulation Resistance: <math>&gt;10^9\Omega</math></p> | <p><b>4. Mechanical Data:</b><br/>                 Insertion Force (contact): <math>\leq 2.0N(.45LBS)</math><br/>                 Withdrawal Force (contact): <math>\geq 0.5N(.11LBS)</math><br/>                 Protection: IP68,NEMA 6P(only in fully locked position)<br/>                 Shock: IEC-68-2-27<br/>                 Vibration: IEC-68-2-6</p> <p><b>5. CE Conformity with Standards:</b><br/>                 EN50082-1, EN50082-2 and IEC60947-5-2</p> |
|---|--|

## Order Information

Part Number	Poles	Color Code	Cable Type		
			Lead(mm <sup>2</sup> )	Outer Jacket	
ASTR4-4/3UZ-40XX	4	 <p>1=grey/pink (1)                      red/blue (2)                      white/green (3)                      brown/green(4)                      2=no wire                      3=blue                      4=white (1)                      green (2)                      yellow (3)                      grey (4)</p>	3x0.80(160xφ0.08) 6x0.40(80xφ0.08)	φ9.0	PUR/PVC
DLTR8-4/3UZ-41XX	4	 <p>1=grey/pink (1)                      red/blue (2)                      white/green (3)                      brown/green (4)                      white/yellow (5)                      yellow/brown (6)                      white/grey (7)                      grey/brown (8)                      2=no wire                      3=blue                      4=white (1)                      green (2)                      yellow (3)                      grey (4)                      pink (5)                      red (6)                      black (7)                      violet (8)</p>	1x0.80(160xφ0.08) 16x0.40(80xφ0.08)	φ9.0	PUR/PVC

xx - Standard length :5.0m(05) and 10.0m(10). Other cable length or cable specifications on request



# DISTRIBUTION BOXES (DBR-SERIES)

## Description

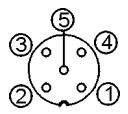
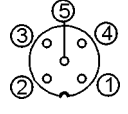
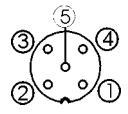
Distribution Boxes,4-6-8 port-Cable Version

5 poles 4 wires,earth connection,with two dust covers and ten attachable molds

## Technical Data

<b>1. Application Class:</b>	-15°C to +90°C	<b>4. Mechanical Data:</b>	
<b>2. Materials:</b>		Insertion Force:	
Housing:	Nylon 6/6 Optional-yellow	(contact):	≤2.0N( .45LBS)
Contact:	Brass,gold over nickel plating	Withdrawal Force	
Receptacle Shell:	Brass,nickel plated	(contact):	≥0.5N( .11LBS)
Insert:	PUR(Polyurethane),black	Protection:	IP68,NEMA 6P(only in fully locked position)
O-Ring:	Viton	Shock:	IEC-68-2-27
<b>3. Electrical Data:</b>		Vibration:	IEC-68-2-6
Contact Resistance:	≤5m Ω	<b>5. CE Conformity with Standards:</b>	
Current Rating:	4 Amps per outlet 12 Amp max per box	EN50082-1, EN50082-2 and IEC60947-5-2	
Working Voltage:	250VAC		
Insulation Resistance:	>10 <sup>9</sup> Ω		

## Order Information

Part Number	Poles	Color Code	Cable Type		
			Lead(mm <sup>2</sup> )	Outer Jacket	
ASTR4-5/4AZ-30XX	5 	1 = brown (+) 2 = No Wire 3 = blue (-) 4 = white (1) green (2) yellow (3) grey (4)	3x0.75(96xφ0.10)  4x0.34(42xφ0.10)	φ8.4	PUR/PVC
ASTR4-5/4AZ-20XX		5 = green/yellow (GND)			PVC (irradiated)
ASTR4-5/4AZ-10XX		PVC			
DSTR6-5/4AZ-33XX	5 	1 = brown (+) 2 = No Wire 3 = blue (-) 4 = white (1) green (2) yellow (3) grey (4) pink (5) red (6)	3x0.75(96xφ0.10)  6x0.34(42xφ0.10)	φ9.0	PUR/PVC
DSTR6-5/4AZ-21XX		5 = green/yellow (GND)			PVC (irradiated)
DSTR6-5/4AZ-11XX		PVC			
DSTR8-5/4AZ-32XX	5 	1 = brown (+) 2 = No Wire 3 = blue (-) 4 = white (1) green (2) yellow (3) grey (4) pink (5) red (6) black (7) violet (8)	3x0.75(96xφ0.10)  8x0.34(42xφ0.10)	φ9.0	PUR/PVC
DSTR8-5/4AZ-22XX		5 = green/yellow (GND)			PVC (irradiated)
DSTR8-5/4AZ-12XX		PVC			

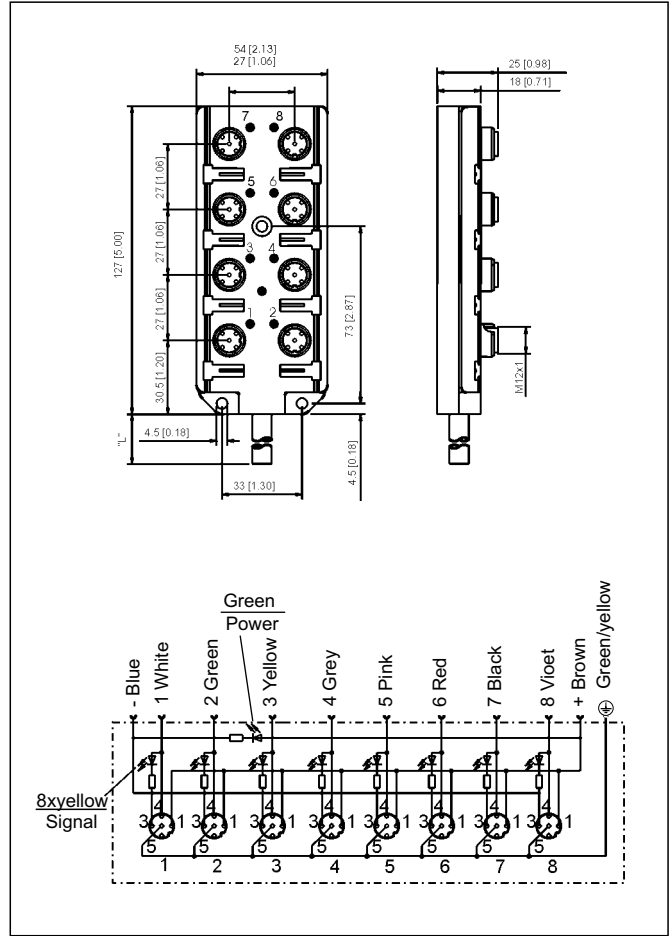
xx - Standard length :5.0m(05) and 10.0m(10). Other cable length or cable specifications on request

# DISTRIBUTION BOXES(DBR-SERIES)

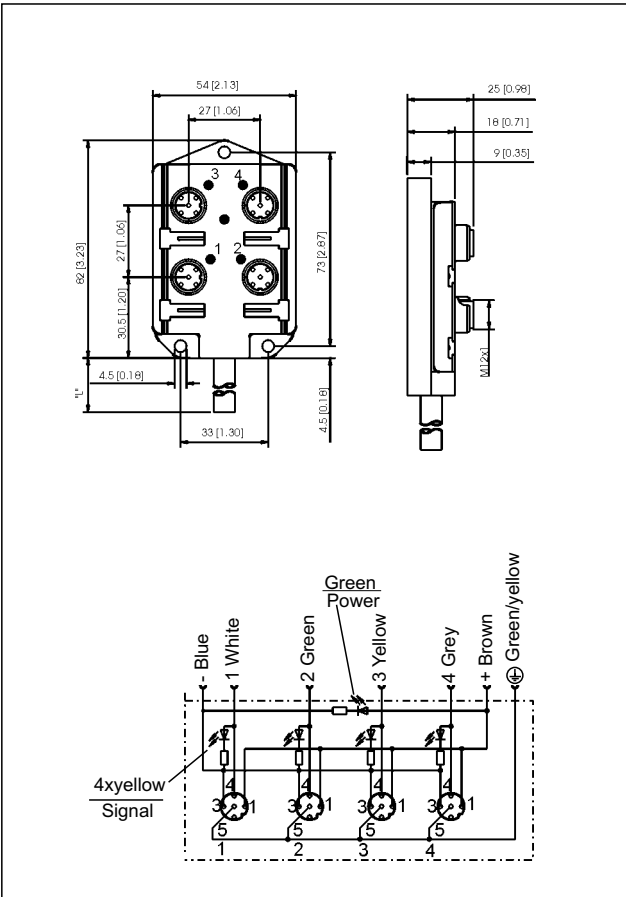
## View



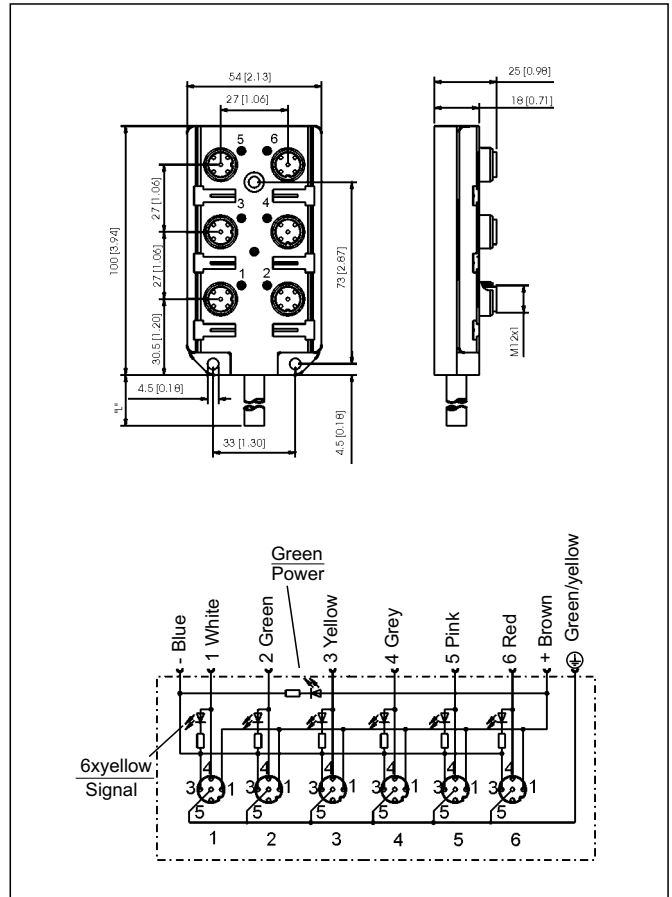
## Dimensional data



## Dimensional data



## Dimensional data



# DISTRIBUTION BOXES (DBR-SERIES)

## Description

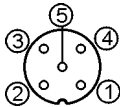
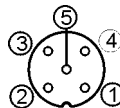
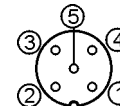
Distribution Boxes,4-6-8 port Cable Version

5 poles 4 wires,with built-in LED's(PNP).earth connection,with two dust covers and ten attachable molds

## Technical Data

1. Application Class:	-15°C to +90°C	4. Mechanical Data:	
2. Materials:		Insertion Force	
Housing:	Nylon 6/6	(contact):	≤ 2.0N (.45LBS)
	Optional-yellow	Withdrawal Force	
Contact:	Brass,gold over nickel plating	(contact):	≥ 0.5N (.11LBS)
Receptacle Shell:	Brass,nickel plated	Protection:	IP68,NEMA 6P(only in fully locked position)
Insert:	PUR(Polyurethane),black	Shock:	IEC-68-2-27
O-Ring:	Viton	Vibration:	IEC-68-2-6
3. Electrical Data:		5. CE Conformity with Standards:	
Contact Resistance:	≤ 5m Ω	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating:	4 Amps per outlet 12 Amp max per box		
Working Voltage:	10-30VDC		
Insulation Resistance:	>10 <sup>9</sup> Ω		

## Order Information

Part Number	Poles	Color Code	Cable Type	
			Lead(mm <sup>2</sup> )	Outer Jacket
ASTR4-5/4PA-30XX	5 	1 = brown (+) 2 = No Wire 3 = blue (-) 4 = white (1) green (2) yellow (3) grey (4) 5 = green/yellow (GND)	3x0.75(96X φ 0.10)	φ 8.4 PUR/PVC PVC (irradiated) PVC
ASTR4-5/4PA-20XX			4X0.34(42X φ 0.10)	
ASTR4-5/4PA-10XX				
DSTR6-5/4PA-33XX	5 	1 = brown (+) 2 = No Wire 3 = blue (-) 4 = white (1) green (2) yellow (3) grey (4) pink (5) red (6) 5 = green/yellow (GND)	3x0.75(96X φ 0.10)	φ 9.0 PUR/PVC PVC (irradiated) PVC
DSTR6-5/4PA-21XX			6X0.34(42X φ 0.10)	
DSTR6-5/4PA-11XX				
DSTR8-5/4PA-32XX	5 	1 = brown (+) 2 = No Wire 3 = blue (-) 4 = white (1) green (2) yellow (3) grey (4) pink (5) red (6) black (7) violet (8) 5 = green/yellow (GND)	3x0.75(96X φ 0.10)	φ 9.0 PUR/PVC PVC (irradiated) PVC
DSTR8-5/4PA-22XX			8X0.34(42X φ 0.10)	
DSTR8-5/4PA-12XX				

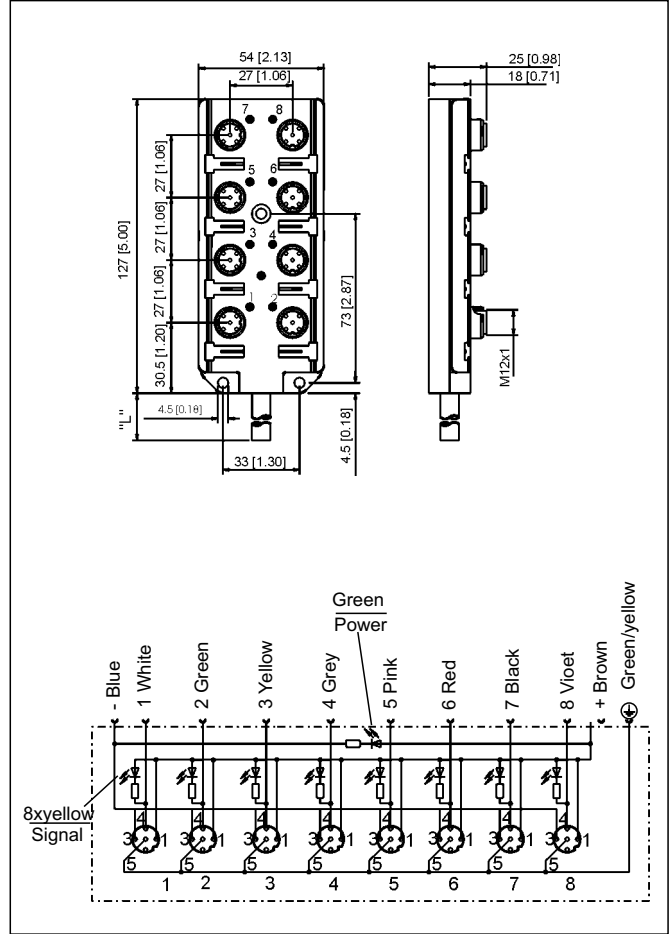
xx - Standard length :5.0m(05) and 10.0m(10). Other cable length or cable specifications on request

# DISTRIBUTION BOXES(DBR-SERIES)

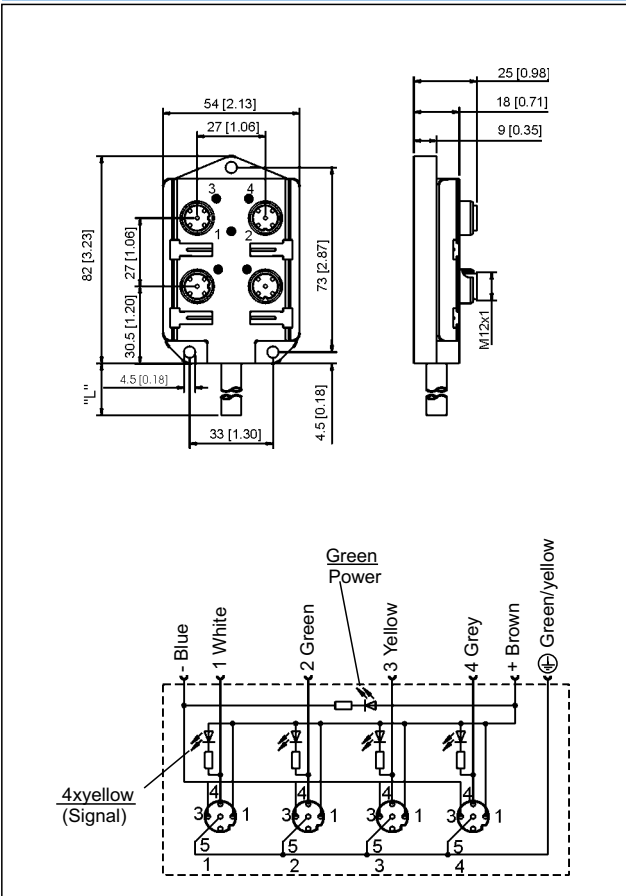
## View



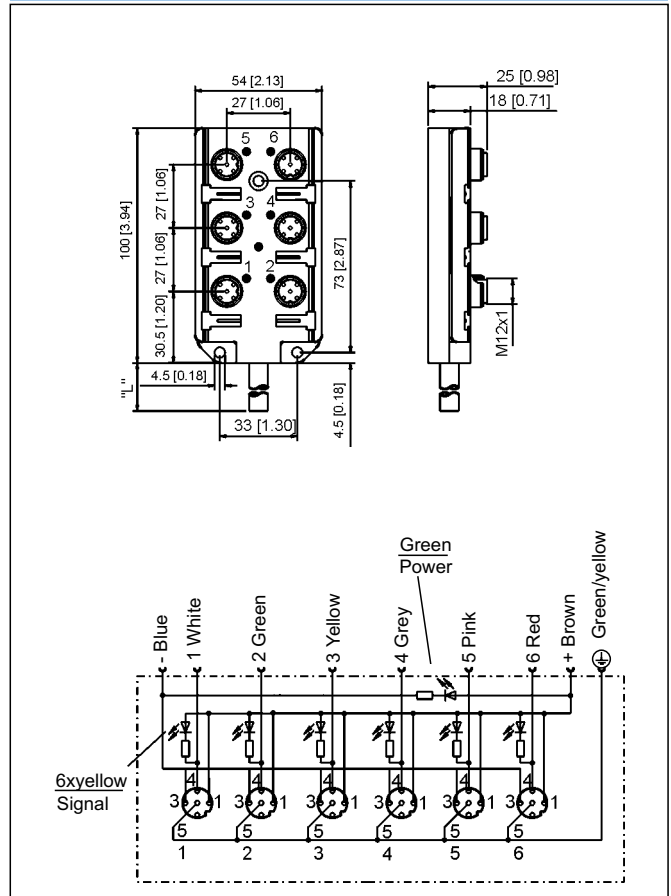
## Dimensional data



## Dimensional data



## Dimensional data



# DISTRIBUTION BOXES (DBR-SERIES)

## Description

Distribution Boxes,4-6-8 port Cable Version

5 poles 4 wires,with built-in LED's(NPN).earth connection,with two dust covers and ten attachable molds

## Technical Data

1. Application Class: -15°C to +90°C

### 2. Materials:

Housing: Nylon 6/6  
Optional-yellow  
Contact: Brass,gold over nickel plating  
Receptacle Shell: Brass,nickel plated  
Insert: PUR(Polyurethane),black  
O-Ring: Viton

### 3. Electrical Data:

Contact Resistance:  $\leq 5m\Omega$   
Current Rating: 4 Amps per outlet  
12 Amp max per box  
Working Voltage: 10-30VDC  
Insulation Resistance:  $>10^9\Omega$

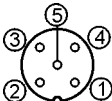
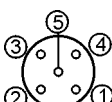
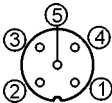
### 4. Mechanical Data:

Insertion Force (contact):  $\leq 2.0N$  (.45LBS)  
Withdrawal Force (contact):  $\geq 0.5N$  (.11LBS)  
Protection: IP68,NEMA 6P(only in fully locked position)  
Shock: IEC-68-2-27  
Vibration: IEC-68-2-6

### 5. CE Conformity with Standards:

EN50082-1, EN50082-2 and IEC60947-5-2

## Order Information

Part Number	Poles	Color Code	Cable Type	
			Lead(mm <sup>2</sup> )	Outer Jacket
ASTR4-5/4NA-30XX	5 	1 = brown (+) 2 = No Wire 3 = blue (-) 4 = white (1) green (2) yellow (3) grey (4) 5 = green/yellow (GND)	3x0.75(96X $\phi$ 0.10)	$\phi$ 8.4 PUR/PVC PVC (irradiated) PVC
ASTR4-5/4NA-20XX		4X0.34(42X $\phi$ 0.10)		
ASTR4-5/4NA-10XX				
DSTR6-5/4NA-33XX	5 	1 = brown (+) 2 = No Wire 3 = blue (-) 4 = white (1) green (2) yellow (3) grey (4) pink (5) red (6) 5 = green/yellow (GND)	3x0.75(96X $\phi$ 0.10)	$\phi$ 9.0 PUR/PVC PVC (irradiated) PVC
DSTR6-5/4NA-21XX		6X0.34(42X $\phi$ 0.10)		
DSTR6-5/4NA-11XX				
DSTR8-5/4NA-32XX	5 	1 = brown (+) 2 = No Wire 3 = blue (-) 4 = white (1) green (2) yellow (3) grey (4) pink (5) red (6) black (7) violet (8) 5 = green/yellow (GND)	3x0.75(96X $\phi$ 0.10)	$\phi$ 9.0 PUR/PVC PVC (irradiated) PVC
DSTR8-5/4NA-22XX		8X0.34(42X $\phi$ 0.10)		
DSTR8-5/4NA-12XX				

xx - Standard length :5.0m(05) and 10.0m(10). Other cable length or cable specifications on request





# DISTRIBUTION BOXES (DBR-SERIES)

## Description

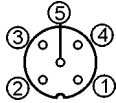
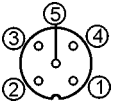
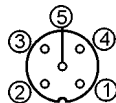
Distribution Boxes,4-6-8 port-Cable Version

5 poles 5 wires,earth connection,with two dust covers and ten attachable molds

## Technical Data

<b>1. Application Class:</b>	-15°C to +90°C	<b>4. Mechanical Data:</b>	
<b>2. Materials:</b>		Insertion Force	
Housing:	Nylon 6/6	(contact):	≤ 2.0N( .45LBS)
	Optional-yellow	Withdrawal Force	
Contact:	Brass,gold over nickel plating	(contact):	≥ 0.5N( .11LBS)
Receptacle Shell:	Brass,nickel plated	Protection:	IP68,NEMA 6P(only in fully locked position)
Insert:	PUR(Polyurethane),black	Shock:	IEC-68-2-27
O-Ring:	Viton	Vibration:	IEC-68-2-6
<b>3. Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5m Ω		
Current Rating:	4 Amps per outlet 12 Amp max per box		
Working Voltage:	110VAC/DC		
Insulation Resistance:	>10 <sup>9</sup> Ω		

## Order Information

Part Number	Poles	Color Code	Cable Type	
			Lead(mm <sup>2</sup> )	Outer Jacket
ALTR4-5/5UZ-36XX	5 	1 = brown (+) 3 = blue (-) 2 = grey/pink (1) red/blue (2) white/green (3) brown/green (4) 4 = white (1) green (2) yellow (3) grey (4) 5 = green/yellow (GND)	3x1.0(128x Φ 0.10) 8x0.5(64x Φ 0.10)	Φ 9.3 PUR
ALTR4-5/5UZ-13XX		3x1.0(128x Φ 0.10) 8x0.5(64x Φ 0.10)	Φ 9.3 PVC	
DLTR6-5/5UZ-34XX	5 	1 = brown (+) 3 = blue (-) 2 = grey/pink (1) red/blue (2) white/green (3) brown/green (4) white/yellow (5) yellow/brown (6) 4 = white (1) green (2) yellow (3) grey (4) pink (5) red (6) 5 = green/yellow (GND)	3x1.0(128x Φ 0.10) 12x0.5(64x Φ 0.10)	Φ 10.4 PUR
DLTR8-5/5UZ-38XX	5 	1 = brown (+) 3 = blue (-) 2 = grey/pink (1) red/blue (2) white/green (3) brown/green (4) white/yellow (5) yellow/brown (6) white/grey (7) grey/brown (8) 4 = white (1) green (2) yellow (3) grey (4) pink (5) red (6) black (7) violet (8) 5 = green/yellow (GND)	3x1.0(128x Φ 0.10) 16x0.5(64x Φ 0.10)	Φ 11.6 PUR

xx - Standard length :5.0m(05) and 10.0m(10). Other cable length or cable specifications on request



# DISTRIBUTION BOXES (DBR-SERIES)

## Description

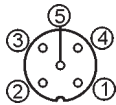
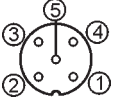

Distribution Boxes,4-6-8 port-Cable Version

5 poles 5 wires,with built-in LED,with two dust covers and ten attachable molds

## Technical Data

<b>1. Application Class:</b>	-15°C to +90°C	<b>4. Mechanical Data:</b>	
<b>2. Materials:</b>		Insertion Force	
Housing:	Nylon 6/6 Optional-yellow	(contact):	≤ 2.0N( .45LBS)
Contact:	Brass,gold over nickel plating	Withdrawal Force	
Receptacle Shell:	Brass,nickel plated	(contact):	≥ 0.5N( .11LBS)
Insert:	PUR(Polyurethane),black	Protection:	IP68,NEMA 6P(only in fully locked position)
O-Ring:	Viton	Shock:	IEC-68-2-27
<b>3. Electrical Data:</b>		Vibration:	IEC-68-2-6
Contact Resistance:	≤ 5m Ω	<b>5. CE Conformity with Standards:</b>	
Current Rating:	4 Amps per outlet 12 Amp max per box		EN50082-1, EN50082-2 and IEC60947-5-2
Working Voltage:	110VAC/DC		
Insulation Resistance:	>10 <sup>9</sup> Ω		

## Order Information

Part Number	Poles	Color Code	Cable Type	
			Lead(mm <sup>2</sup> )	Outer Jacket
ALTR4-5/5DC-36XX	5 	1 = brown (+) 3 = blue (-) 2 = grey/pink (1) red/blue (2) white/green (3) brown/green (4)	3x1.0(128x Φ 0.10) 8x0.5(64x Φ 0.10)	Φ 9.3 PUR
ALTR4-5/5DC-13XX		4 = white (1) green (2) yellow (3) grey (4) 5 = green/yellow (GND)	3x1.0(128x Φ 0.10) 8x0.5(64x Φ 0.10)	Φ 9.3 PVC
DLTR6-5/5DC-34XX	5 	1 = brown (+) 3 = blue (-) 2 = grey/pink (1) red/blue (2) white/green (3) brown/green (4) white/yellow (5) yellow/brown (6)	3x1.0(128x Φ 0.10) 12x0.5(64x Φ 0.10)	Φ 10.4 PUR
DLTR8-5/5DC-38XX	5 	1 = brown (+) 3 = blue (-) 2 = grey/pink (1) red/blue (2) white/green (3) brown/green (4) white/yellow (5) yellow/brown (6) white/grey (7) grey/brown (8)	3x1.0(128x Φ 0.10) 16x0.5(64x Φ 0.10)	Φ 11.6 PUR
		4 = white (1) green (2) yellow (3) grey (4) pink (5) red (6) black (7) violet (8) 5 = green/yellow (GND)		

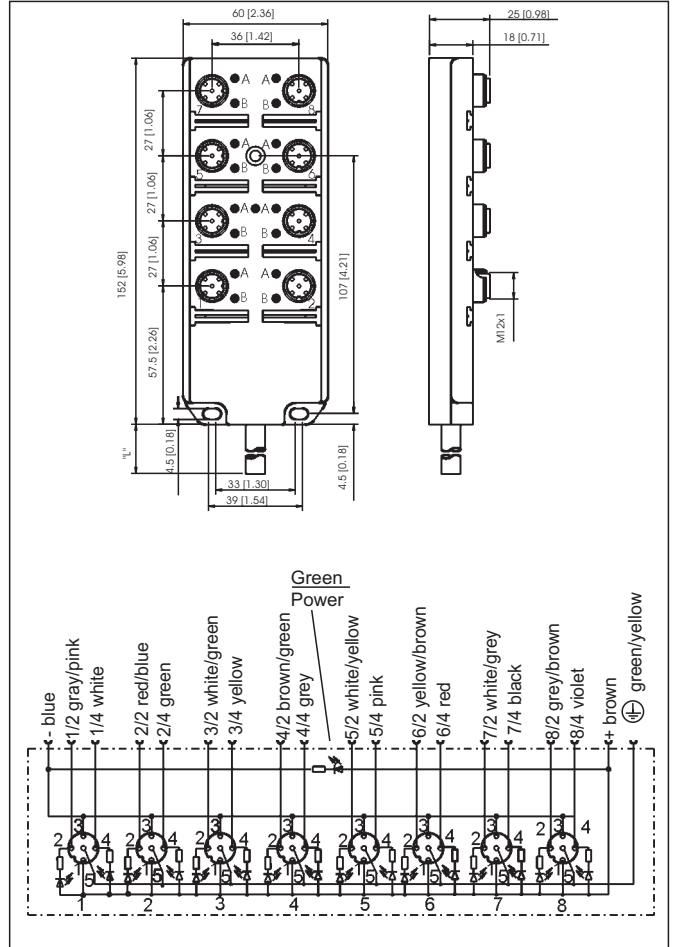
xx - Standard length :5.0m(05) and 10.0m(10). Other cable length or cable specifications on request

# DISTRIBUTION BOXES(DBR-SERIES)

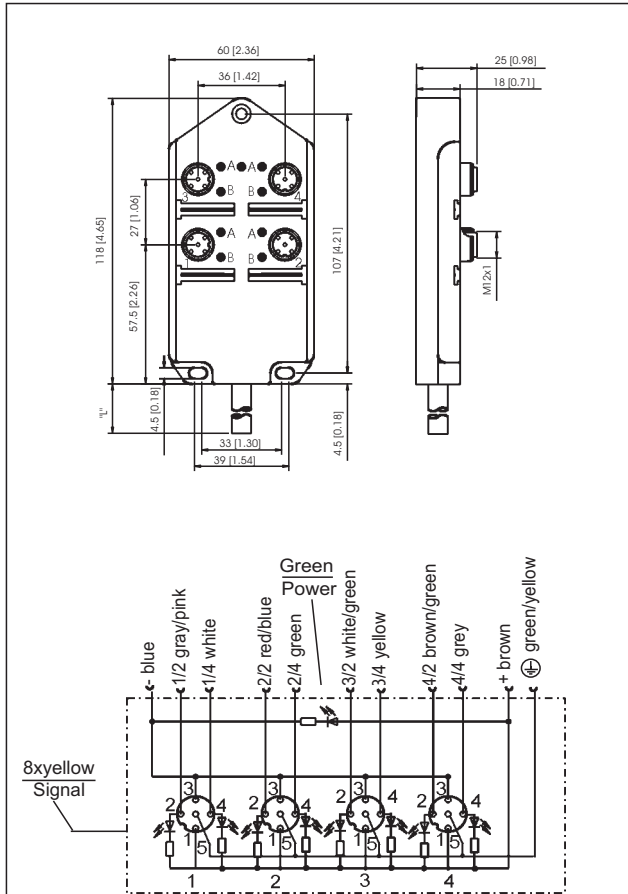
## View



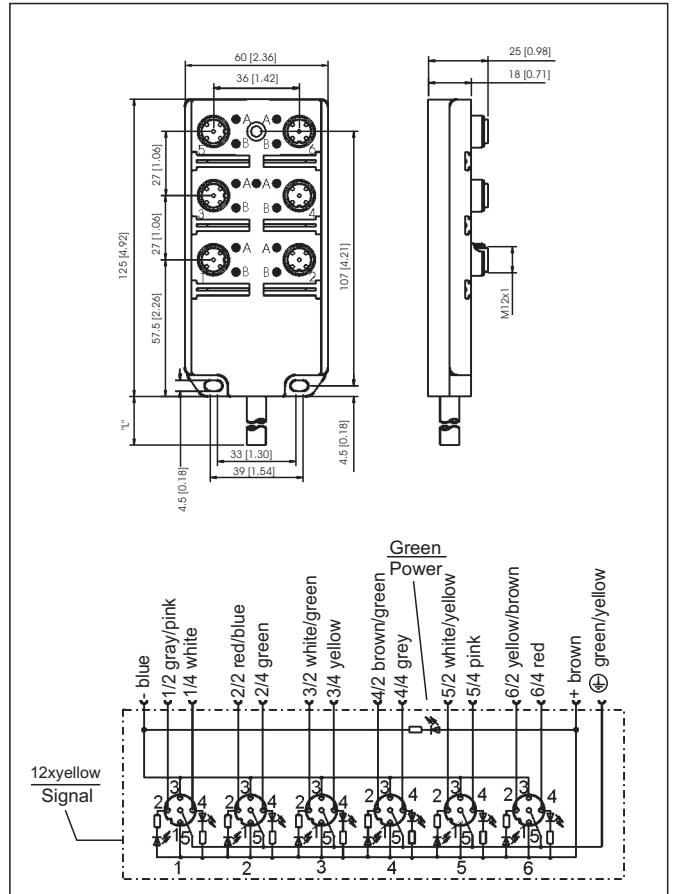
## Dimensional data



## Dimensional data



## Dimensional data



# DISTRIBUTION BOXES (DBR-SERIES)

## Description

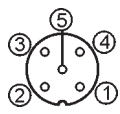
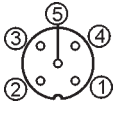
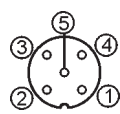
Distribution Boxes,4-6-8 port-Cable Version

5 poles 5 wires,with built-in LED,with two dust covers and ten attachable molds

## Technical Data

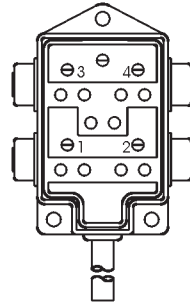
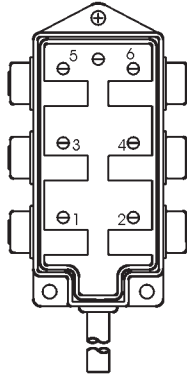
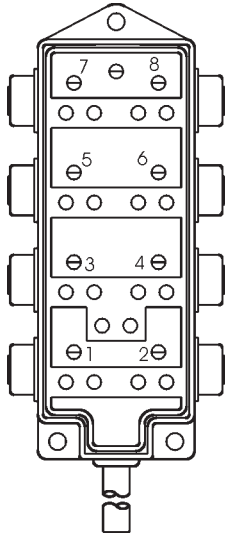
<b>1. Application Class:</b>	-15°C to +90°C	<b>4. Mechanical Data:</b>	
<b>2. Materials:</b>		Insertion Force	
Housing:	Nylon 6/6	(contact):	≤ 2.0N( .45LBS)
Contact:	Optional-yellow	Withdrawal Force	
Receptacle Shell:	Brass,gold over nickel plating	(contact):	≥ 0.5N( .11LBS)
Insert:	Brass,nickel plated	Protection:	IP68,NEMA 6P(only in fully locked position)
O-Ring:	PUR(Polyurethane),black	Shock:	IEC-68-2-27
	Viton	Vibration:	IEC-68-2-6
<b>3. Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5m Ω		
Current Rating:	4 Amps per outlet 12 Amp max per box		
Working Voltage:	110VAC/DC		
Insulation Resistance:	>10 <sup>9</sup> Ω		

## Order Information

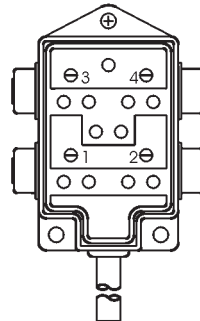
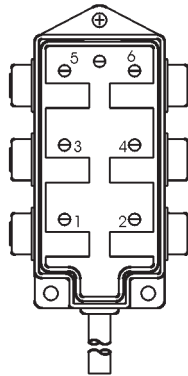
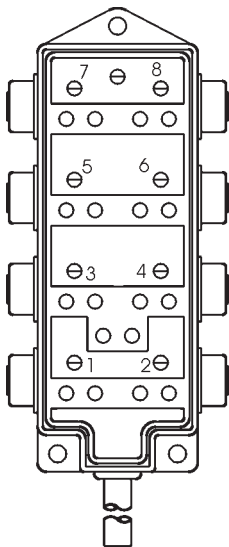
Part Number	Poles	Color Code	Cable Type	
			Lead(mm <sup>2</sup> )	Outer Jacket
ALTR4-5/5EC-36XX	5 	1 = brown (+) 3 = blue (-) 2 = grey/pink (1) red/blue (2) white/green (3) brown/green (4)	3x1.0(128x Φ 0.10) 8x0.5(64x Φ 0.10)	Φ 9.3 PUR
ALTR4-5/5EC-13XX		4 = white (1) green (2) yellow (3) grey (4) 5 = green/yellow (GND)	3x1.0(128x Φ 0.10) 8x0.5(64x Φ 0.10)	Φ 9.3 PVC
DLTR6-5/5EC-34XX	5 	1 = brown (+) 3 = blue (-) 2 = grey/pink (1) red/blue (2) white/green (3) brown/green (4) white/yellow (5) yellow/brown (6)	3x1.0(128x Φ 0.10) 12x0.5(64x Φ 0.10)	Φ 10.4 PUR
DLTR8-5/5EC-38XX	5 	1 = brown (+) 3 = blue (-) 2 = grey/pink (1) red/blue (2) white/green (3) brown/green (4) white/yellow (5) yellow/brown (6) white/grey (7) grey/brown (8)	3x1.0(128x Φ 0.10) 16x0.5(64x Φ 0.10)	Φ 11.6 PUR
		4 = white (1) green (2) yellow (3) grey (4) pink (5) red (6) black (7) violet (8) 5 = green/yellow (GND)		

xx - Standard length :5.0m(05) and 10.0m(10). Other cable length or cable specifications on request

# DISTRIBUTION BOXES *DBRS SERIES* INDEX



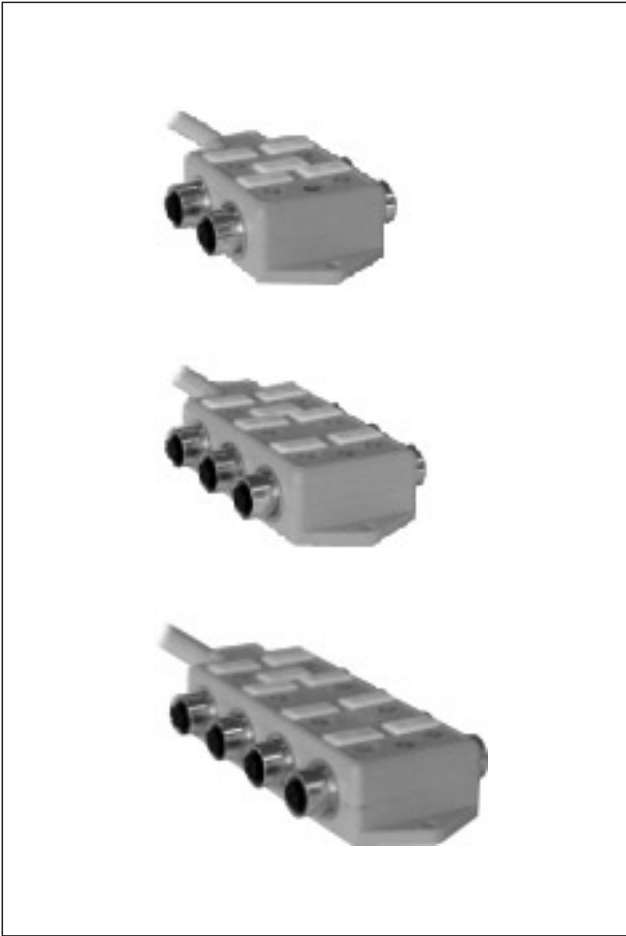
Page H18



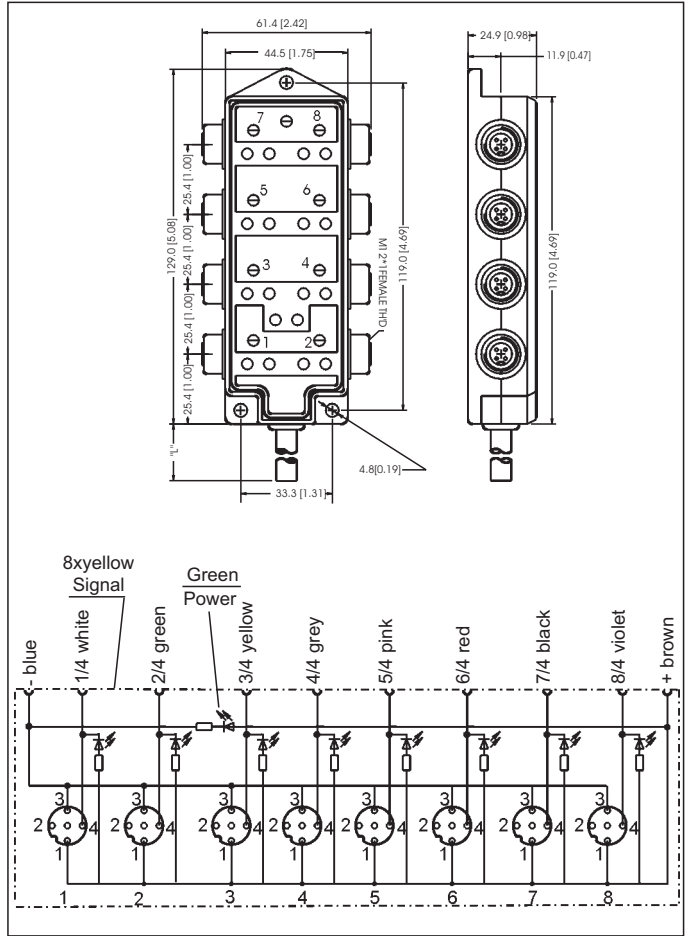
Page H20

# DISTRIBUTION BOXES(DBRS-SERIES)

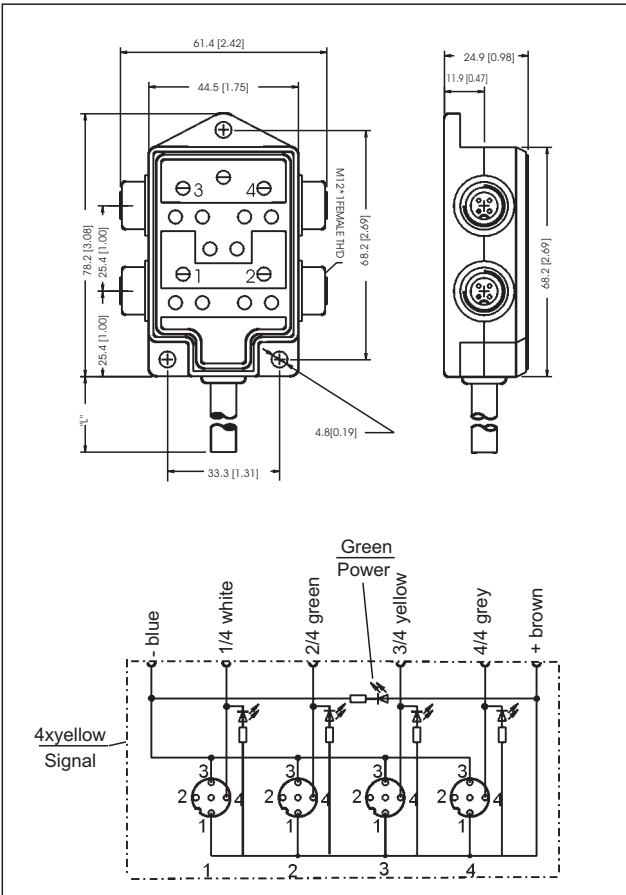
## View



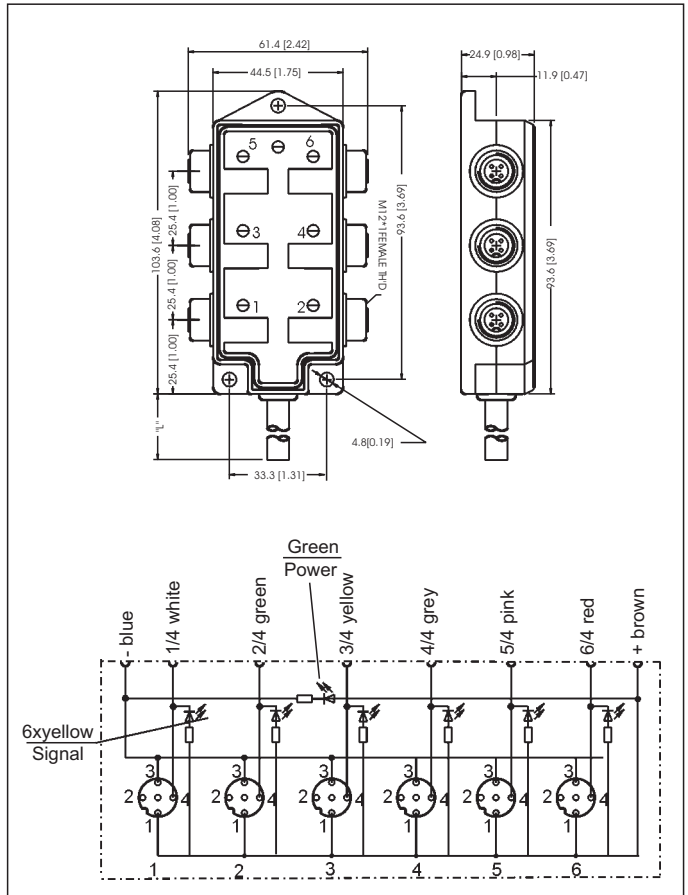
## Dimensional data



## Dimensional data



## Dimensional data





# DISTRIBUTION BOXES (DBRS-SERIES)

## Description

Distribution Boxes,4-6-8 port-Cable Side Version

5 poles 3 wires,with built-in LED,with two dust covers and ten attachable molds

## Technical Data

1. Application Class: -25 °C to +90 °C

### 2. Materials:

Housing: Nylon 6/6  
 Contact: Brass,gold over nickel plating  
 Receptacle Shell: Brass.black nickel plated  
 Insert: PUR(Polyurethane),black  
 O-Ring: Nitrile Rubber

### 3. Electrical Data:

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 4 Amps per outlet  
 12 Amp max per box  
 Working Voltage: 10-30VDC  
 Insulation Resistance:  $>10^9 \Omega$   
 Current Limiting Resistor: 3.3K $\Omega$

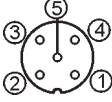
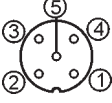
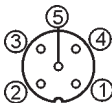
### 4. Mechanical Data:

Insertion Force (contact)  $\leq 2.0N$  (0.45LBS)  
 Withdrawal Force (contact)  $\geq 0.5N$  (0.11LBS)  
 Protection: IP68,NEMA 6P(only in fully locked position)  
 Shock: IEC-68-2-27  
 Vibration: IEC-68-2-6

### 5. CE Conformity with Standards:

EN50082-1, EN50082-2 and IEC60947-5-2

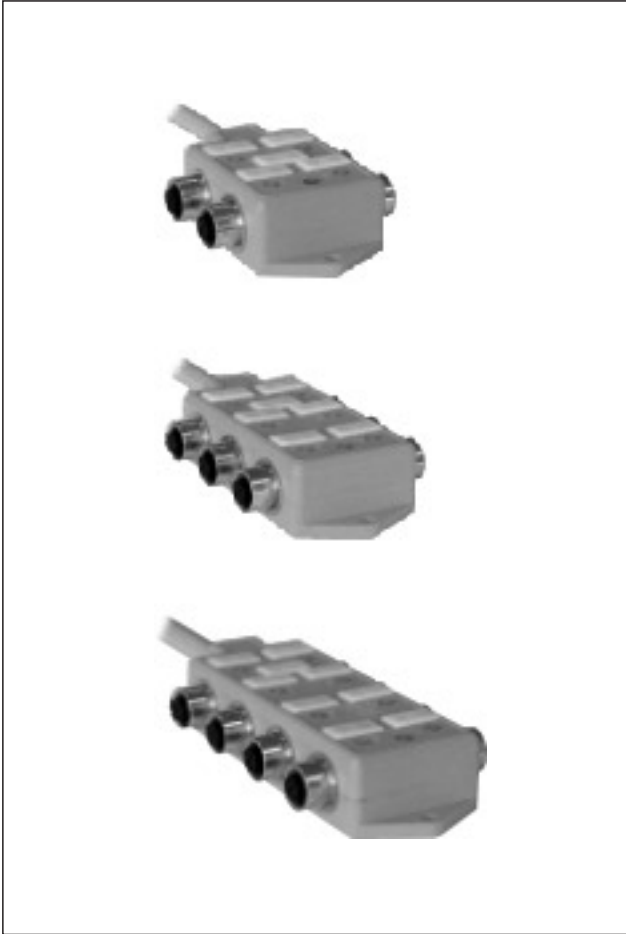
## Order Information

Part Number	Poles	Color Code	Cable Type		
			Lead(mm <sup>2</sup> )	Outer Jacket	
ASSR4-5/3PA-64XX	5 	1 = brown (+) 3 = blue (-) 4 = white (1) green (2) yellow (3) grey (4)	3x0.75(96x $\Phi$ 0.10)	$\Phi$ 8.4	PVC
ASSR4-5/3PA-65XX			4x0.34(42x $\Phi$ 0.10)		PVC (irradiated)
ASSR4-5/3PA-66XX					PUR/PVC
ASSR6-5/3PA-67XX	5 	1 = brown (+) 3 = blue (-) 4 = white (1) green (2) yellow (3) grey (4) pink (5) red (6)	3x0.75(96x $\Phi$ 0.10)	$\Phi$ 9.0	PVC
ASSR6-5/3PA-68XX			6x0.34(42x $\Phi$ 0.10)		PVC (irradiated)
ASSR6-5/3PA-69XX					PUR/PVC
ASSR8-5/3PA-57XX	5 	1 = brown (+) 3 = blue (-) 4 = white (1) green (2) yellow (3) grey (4) pink (5) red (6) black (7) violet (8)	3x0.75(96x $\Phi$ 0.10)	$\Phi$ 9.0	PVC
ASSR8-5/3PA-58XX			8x0.34(42x $\Phi$ 0.10)		PVC (irradiated)
ASSR8-5/3PA-59XX					PUR/PVC

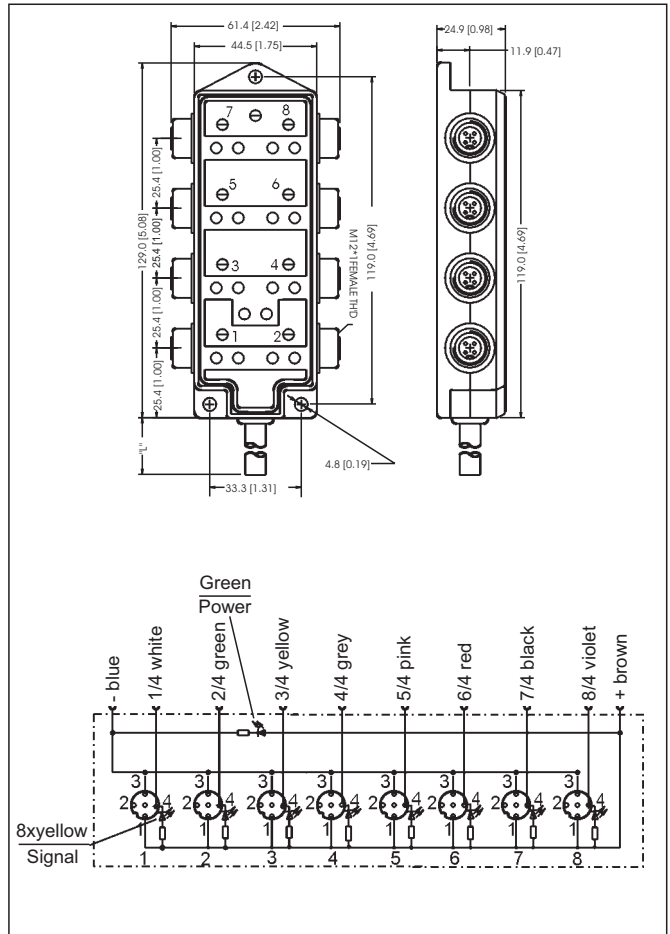
xx - Standard length :5.0m(05) and 10.0m(10). Other cable length or cable specifications on request

# DISTRIBUTION BOXES(DBRS-SERIES)

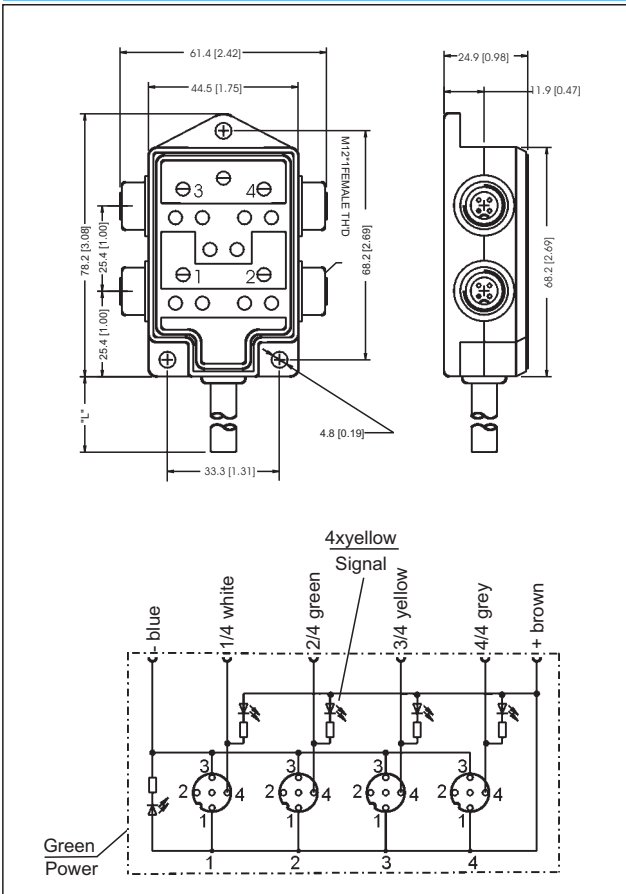
## View



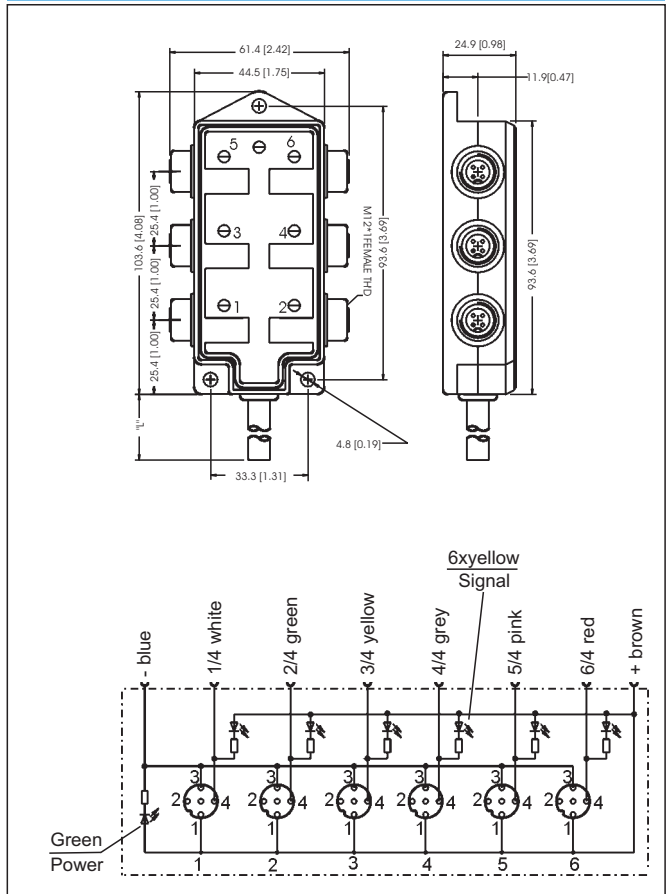
## Dimensional data



## Dimensional data



## Dimensional data



# DISTRIBUTION BOXES (DBRS-SERIES)

## Description

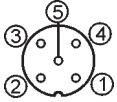
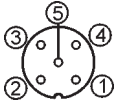

Distribution Boxes,4-6-8 port-Cable Side Version

5 poles 3 wires,with built-in LED,with two dust covers and ten attachable molds

## Technical Data

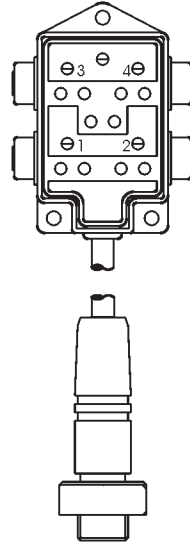
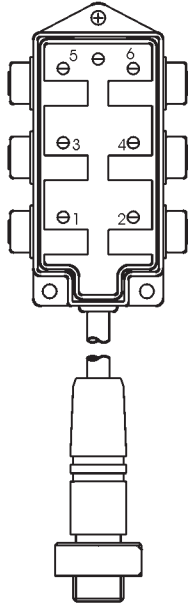
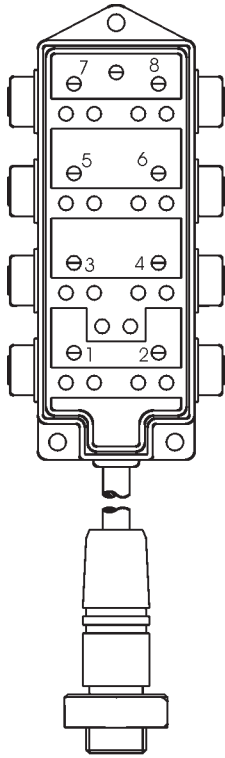
<b>1. Application Class:</b>	-25°C to +90°C	<b>4. Mechanical Data:</b>	
<b>2. Materials:</b>		Insertion Force (contact)	≤ 2.0N(0.45LBS)
Housing:	Nylon 6/6	Withdrawal Force (contact):	≥ 0.5N (0.11LBS)
Contact:	Brass,gold over nickel plating	Protection:	IP68,NEMA 6P(only in fully locked position)
Receptacle Shell:	Brass.black nickel plated	Shock:	IEC-68-2-27
Insert:	PUR(Polyurethane),black	Vibration:	IEC-68-2-6
O-Ring:	Nitrile Rubber		
<b>3. Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5mΩ	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating:	4 Amps per outlet 12 Amp max per box		
Working Voltage:	10-30VDC		
Insulation Resistance:	>10 <sup>9</sup> Ω		
Current Limiting Resistor:	3.3KΩ		

## Order Information

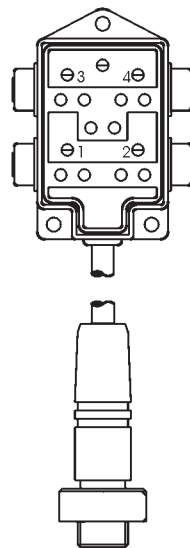
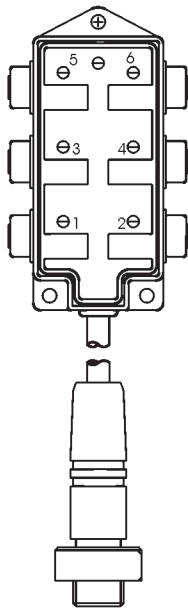
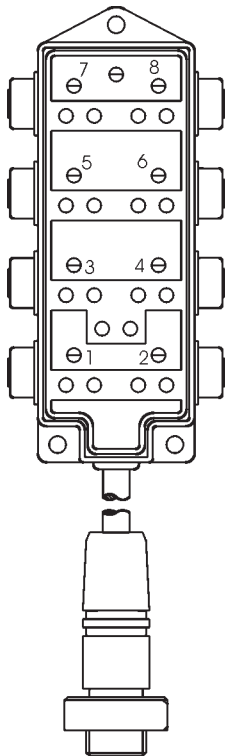
Part Number	Poles	Color Code	Cable Type	
			Lead(mm <sup>2</sup> )	Outer Jacket
ASSR4-5/3NA-64XX	5 	1 = brown (+) 3 = blue (-) 4 = white (1) green (2) yellow (3) grey (4)	3x0.75(96x φ 0.10) 4x0.34(42x φ 0.10)	PVC φ 8.4 PVC (irradiated) PUR/PVC
ASSR4-5/3NA-65XX				
ASSR4-5/3NA-66XX				
ASSR6-5/3NA-67XX	5 	1 = brown (+) 3 = blue (-) 4 = white (1) green (2) yellow (3) grey (4) pink (5) red (6)	3x0.75(96x φ 0.10) 6x0.34(42x φ 0.10)	PVC φ 9.0 PVC (irradiated) PUR/PVC
ASSR6-5/3NA-68XX				
ASSR6-5/3NA-69XX				
ASSR8-5/3NA-57XX	5 	1 = brown (+) 3 = blue (-) 4 = white (1) green (2) yellow (3) grey (4) pink (5) red (6) black (7) violet (8)	3x0.75(96x φ 0.10) 8x0.34(42x φ 0.10)	PVC φ 9.0 PVC (irradiated) PUR/PVC
ASSR8-5/3NA-58XX				
ASSR8-5/3NA-59XX				

xx - Standard length :5.0m(05) and 10.0m(10). Other cable length or cable specifications on request

# DISTRIBUTION BOXES *DBRSP SERIES* INDEX



Page H24  
Page H26  
Page H28



Page H30  
Page H32  
Page H34



# DISTRIBUTION BOXES (DBRSP-SERIES)

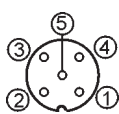
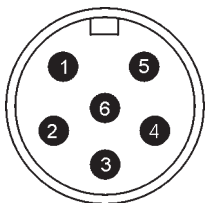
## Description

Distribution Boxes, 4 ports, Pigtail  
5 poles 3 wires, with built-in LED, with two dust covers and ten attachable molds

## Technical Data

<b>1. Application Class:</b>	-25°C to +90°C	<b>Working Voltage:</b>	10-30VDC
<b>2. Materials:</b>		<b>Insulation Resistance:</b>	>10 <sup>9</sup> Ω
Housing :	Nylon 6/6	<b>4. Mechanical Data:</b>	
Contact:	Brass, gold over nickel plating	Insertion Force (contact)	≤ 2.0N (0.45LBS)
Coupling Nut:	Aluminum, Black anodized	Withdrawal Force (contact):	≥ 0.5N (0.11LBS)
Receptacle Shell:	Brass, nickel plated	Protection:	IP68, NEMA 6P (only in fully locked position)
Insert:	PUR (Polyurethane), black	Shock:	IEC-68-2-27
O-Ring:	Viton	Vibration:	IEC-68-2-6
Molded Body:	PUR, Yellow	<b>5. CE Conformity with Standards:</b>	
Male Insert:	PUR, Yellow	EN50082-1, EN50082-2 and IEC60947-5-2	
<b>3. Electrical Data:</b>			
Contact Resistance:	≤ 5mΩ		
Current Rating:	4 Amps per outlet 12 Amp max per box		

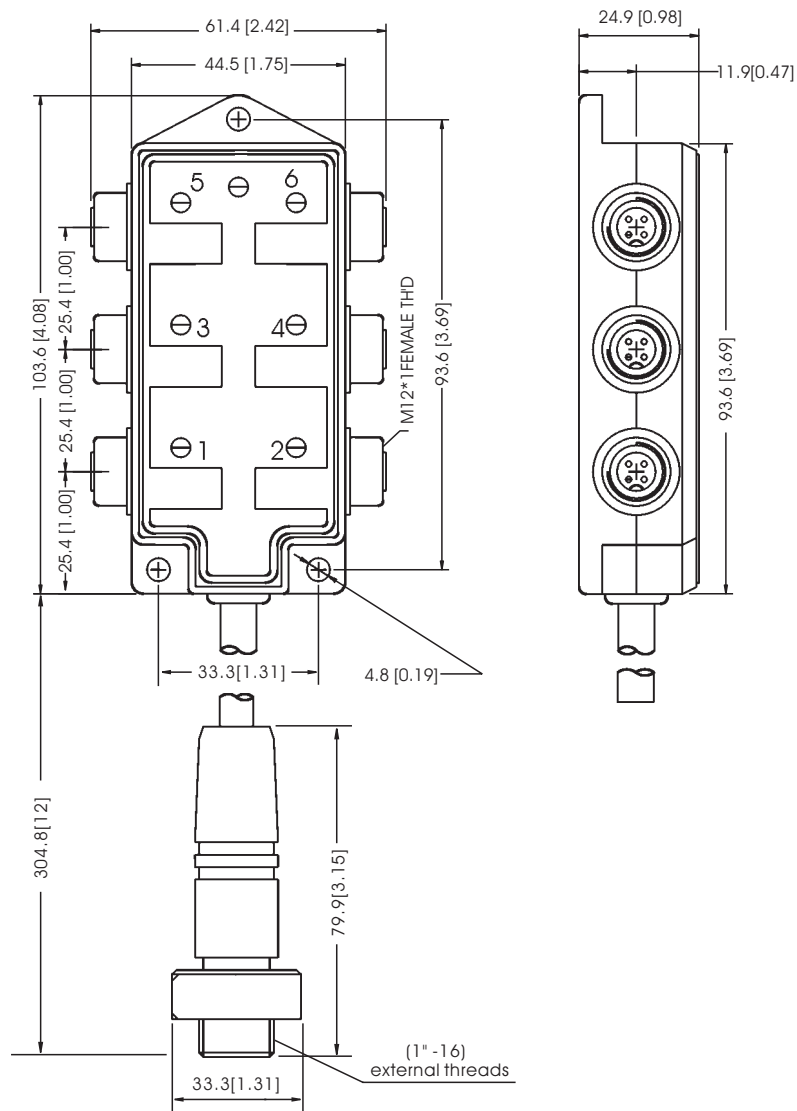
## Order Information

Part Number	Face View Outlets	Face View of Male Plug		Wiring Diagram	
		Poles	Thread	Mini Male Pin	Outlet Pin
ASSR4-5/3NA-PZ6			7/8"-16	1=	4/4
				2=	3/4
				3=	2/4
				4=	1/4
				5=	1~4/3(-)
				6=	1~4/1(+)
	Pigtail length		Number of cable		
4 ports	305mm		30		

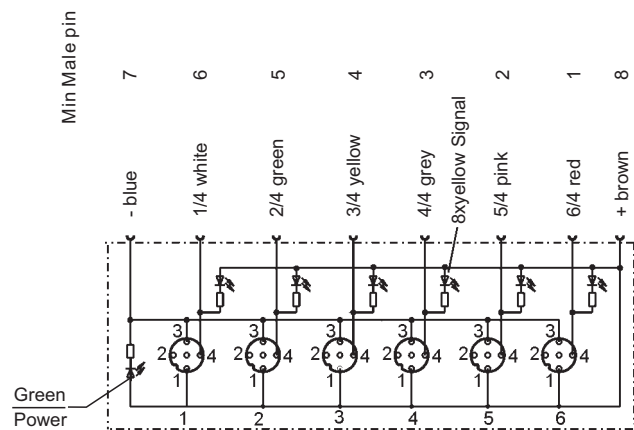
Reference pages J-1~J-17 for additional cable specification

# DISTRIBUTION BOXES(DBRSP-SERIES)

## Dimensional data



## View



# DISTRIBUTION BOXES (DBRSP-SERIES)

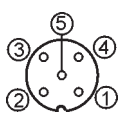

## Description

Distribution Boxes, 6 ports, Pigtail  
5 poles 3 wires, with built-in LED, with two dust covers and ten attachable molds

## Technical Data

<b>1. Application Class:</b>	-25°C to +90°C	<b>Working Voltage:</b>	10-30VDC
<b>2. Materials:</b>		<b>Insulation Resistance:</b>	>10 <sup>9</sup> Ω
Housing :	Nylon 6/6	<b>4. Mechanical Data:</b>	
Contact:	Brass, gold over nickel plating	Insertion Force (contact)	≤ 2.0N (0.45LBS)
Coupling Nut:	Aluminum, Black anodized	Withdrawal Force (contact):	≥ 0.5N (0.11LBS)
Receptacle Shell:	Brass, nickel plated	Protection:	IP68, NEMA 6P (only in fully locked position)
Insert:	PUR (Polyurethane), black	Shock:	IEC-68-2-27
O-Ring:	Viton	Vibration:	IEC-68-2-6
Molded Body:	PUR, Yellow	<b>5. CE Conformity with Standards:</b>	
Male Insert:	PUR, Yellow	EN50082-1, EN50082-2 and IEC60947-5-2	
<b>3. Electrical Data:</b>			
Contact Resistance:	≤ 5mΩ		
Current Rating:	4 Amps per outlet 12 Amp max per box		

## Order Information

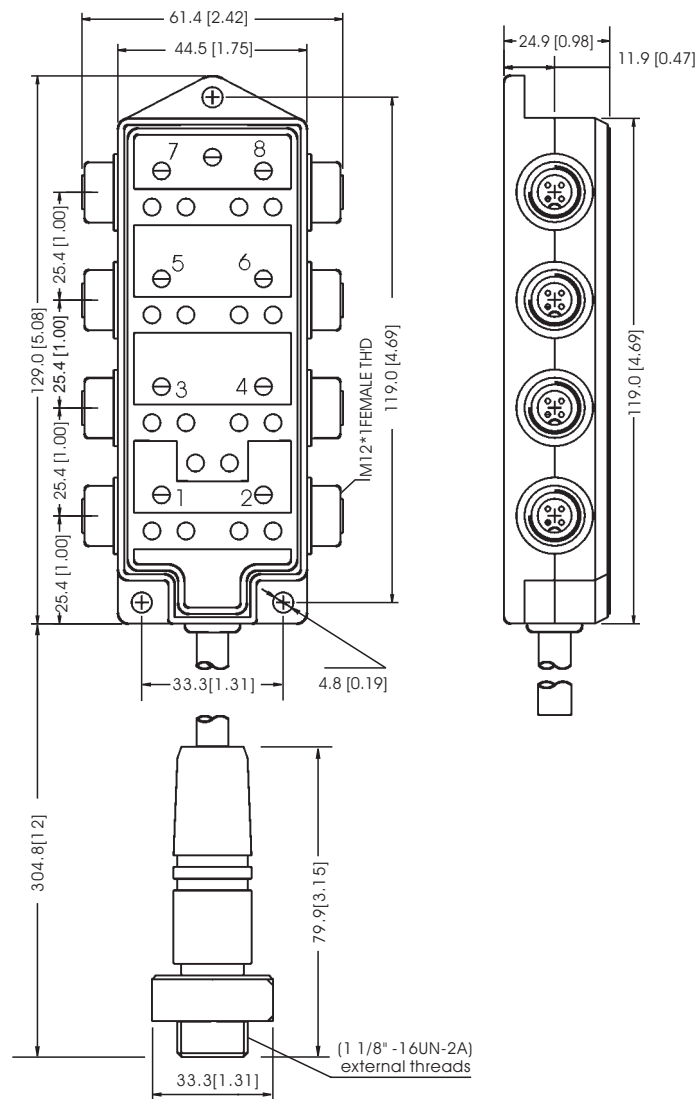
Part Number	Face View Outlets	Face View of Male Plug		Wiring Diagram	
		Poles	Thread	Mini Male Pin	Outlet Pin
ASSR6-5/3NA-PZ8			1"-16	1=	6/4
				2=	5/4
				3=	4/4
				4=	3/4
				5=	2/4
				6=	1/4
				7=	1~6/3(-)
				8=	1~6/1(+)
	Pigtail length		Number of cable		
6 ports	305mm		33		

Reference pages J-1~J-17 for additional cable specification

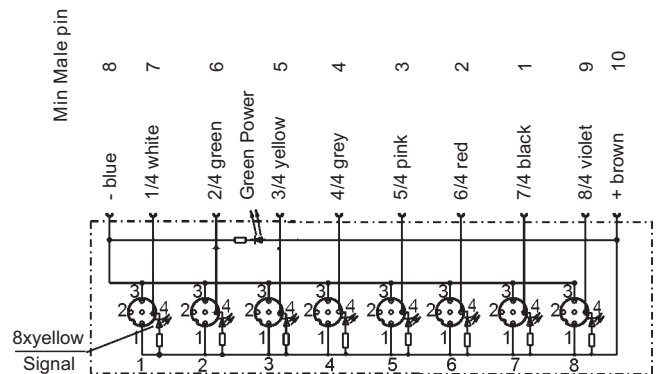


# DISTRIBUTION BOXES(DBRSP-SERIES)

## Dimensional data



## View



# DISTRIBUTION BOXES (DBRSP-SERIES)

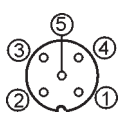

## Description

Distribution Boxes, 8 ports, Pigtail  
5 poles 3 wires, with built-in LED, with two dust covers and ten attachable molds

## Technical Data

<b>1. Application Class:</b>	-25°C to +90°C	<b>Working Voltage:</b>	10-30VDC
<b>2. Materials:</b>		<b>Insulation Resistance:</b>	>10 <sup>9</sup> Ω
Housing :	Nylon 6/6	<b>4. Mechanical Data:</b>	
Contact:	Brass, gold over nickel plating	Insertion Force (contact)	≤ 2.0N (0.45LBS)
Coupling Nut:	Aluminum, Black anodized	Withdrawal Force (contact):	≥ 0.5N (0.11LBS)
Receptacle Shell:	Brass, nickel plated	Protection:	IP68, NEMA 6P (only in fully locked position)
Insert:	PUR (Polyurethane), black	Shock:	IEC-68-2-27
O-Ring:	Viton	Vibration:	IEC-68-2-6
Molded Body:	PUR, Yellow	<b>5. CE Conformity with Standards:</b>	
Male Insert:	PUR, Yellow	EN50082-1, EN50082-2 and IEC60947-5-2	
<b>3. Electrical Data:</b>			
Contact Resistance:	≤ 5m Ω		
Current Rating:	4 Amps per outlet 12 Amp max per box		

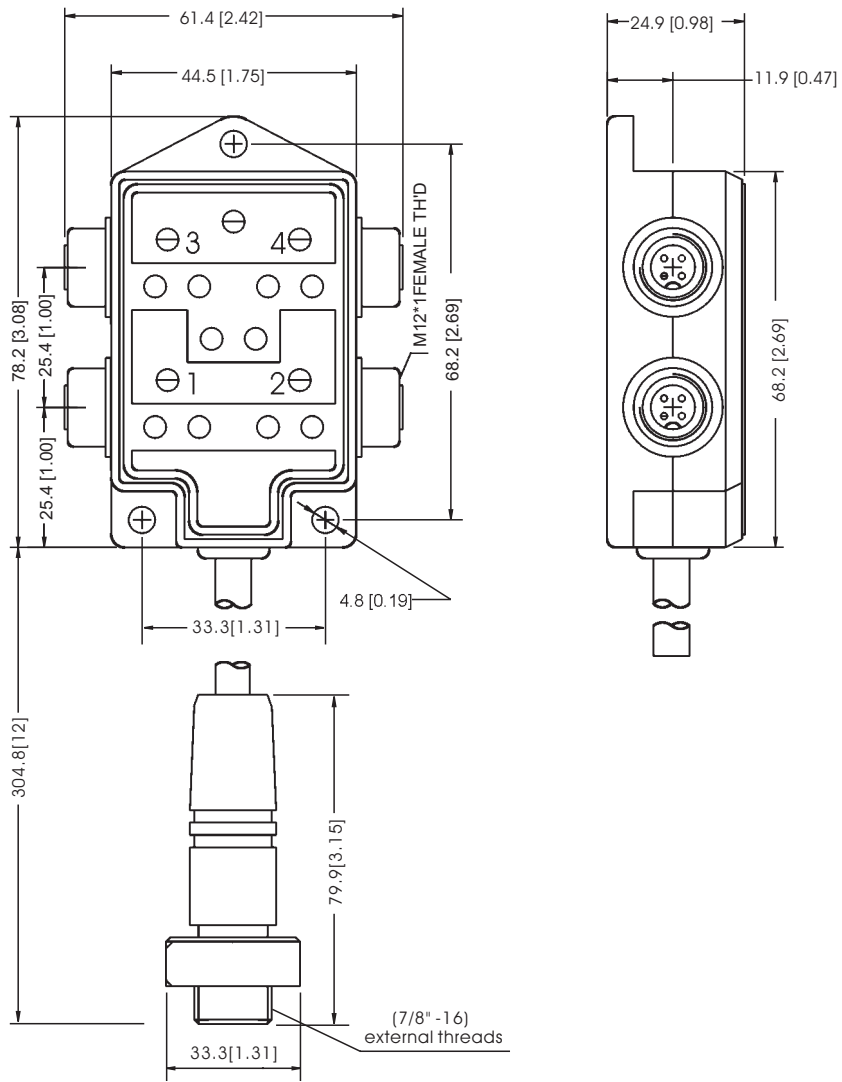
## Order Information

Part Number	Face View Outlets	Face View of Male Plug		Wiring Diagram	
		Poles	Thread	Mini Male Pin	Outlet Pin
ASSR8-5/3NA-PZ10			1 1/8" - 16	1=	7/4
				2=	6/4
				3=	5/4
				4=	4/4
				5=	3/4
				6=	2/4
				7=	1/4
				8=	1~8/3(-)
				9=	8/4
				10=	1~8/1(+)
	Pigtail length		Number of cable		
8 ports	305mm		32		

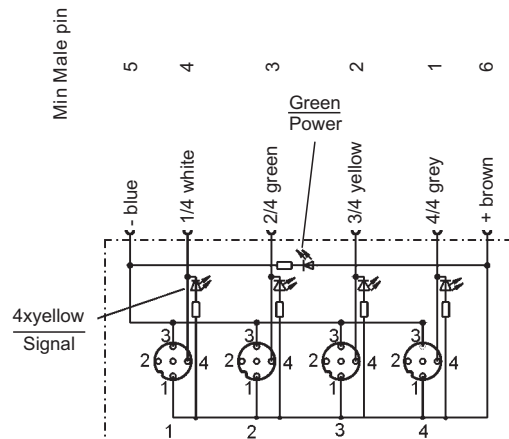
Reference pages J-1~J-17 for additional cable specification

# DISTRIBUTION BOXES(DBRSP-SERIES)

## Dimensional data



## View



# DISTRIBUTION BOXES (DBRSP-SERIES)

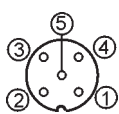

## Description

Distribution Boxes, 4 ports, Pigtail  
5 poles 3 wires, with built-in LED, with two dust covers and ten attachable molds

## Technical Data

<b>1. Application Class:</b>	-25°C to +90°C	<b>Working Voltage:</b>	10-30VDC
<b>2. Materials:</b>		<b>Insulation Resistance:</b>	>10 <sup>9</sup> Ω
Housing :	Nylon 6/6	<b>4. Mechanical Data:</b>	
Contact:	Brass, gold over nickel plating	Insertion Force (contact)	≤ 2.0N (0.45LBS)
Coupling Nut:	Aluminum, Black anodized	Withdrawal Force (contact):	≥ 0.5N (0.11LBS)
Receptacle Shell:	Brass, nickel plated	Protection:	IP68, NEMA 6P (only in fully locked position)
Insert:	PUR (Polyurethane), black	Shock:	IEC-68-2-27
O-Ring:	Viton	Vibration:	IEC-68-2-6
Molded Body:	PUR, Yellow	<b>5. CE Conformity with Standards:</b>	
Male Insert:	PUR, Yellow	EN50082-1, EN50082-2 and IEC60947-5-2	
<b>3. Electrical Data:</b>			
Contact Resistance:	≤ 5m Ω		
Current Rating:	4 Amps per outlet 12 Amp max per box		

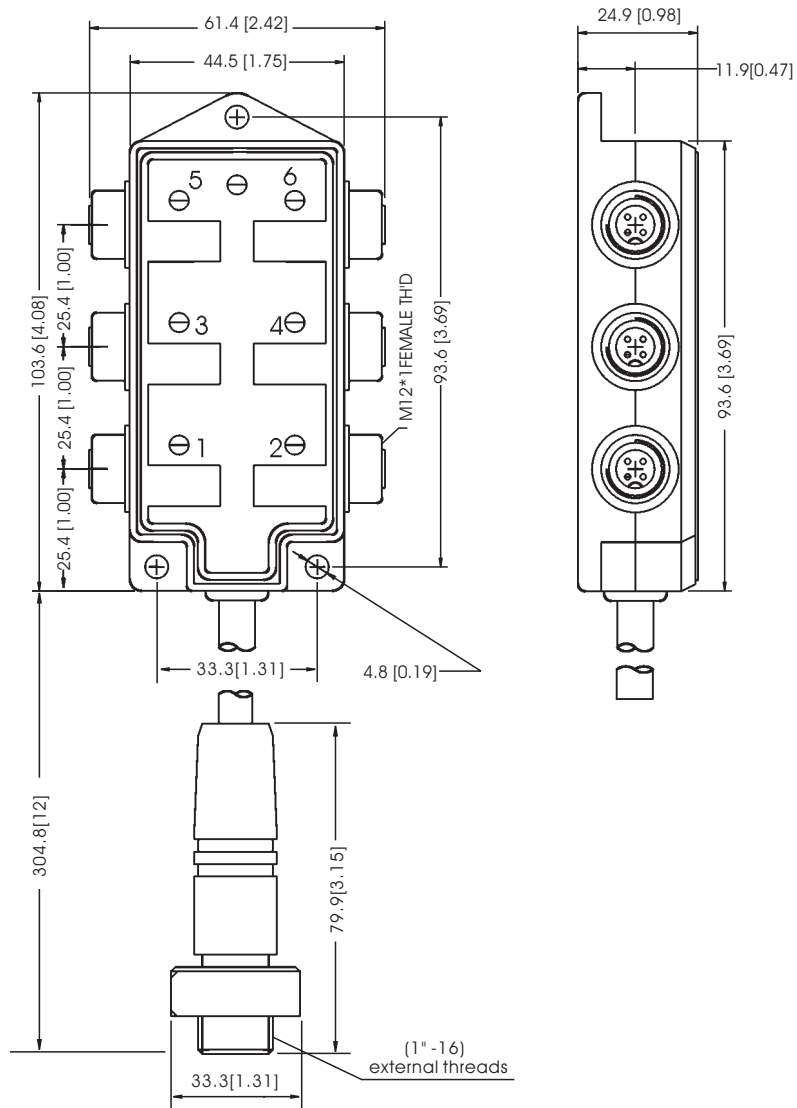
## Order Information

Part Number	Face View Outlets	Face View of Male Plug		Wiring Diagram	
		Poles	Thread	Mini Male Pin	Outlet Pin
ASSR4-5/3PA-PZ6			7/8"-16	1=	4/4
				2=	3/4
				3=	2/4
				4=	1/4
				5=	1~4/3(-)
				6=	1~4/1(+)
	Pigtail length		Number of cable		
4 ports	305mm		30		

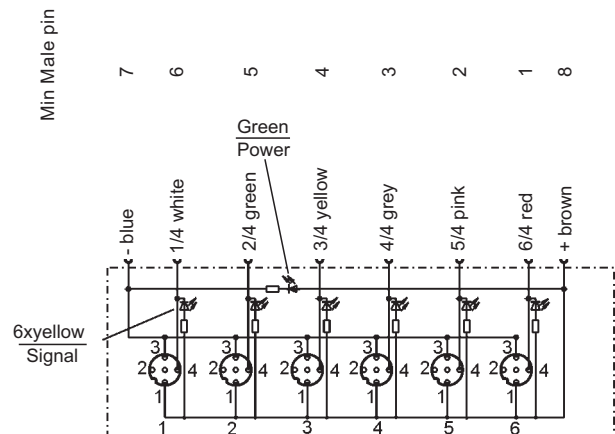
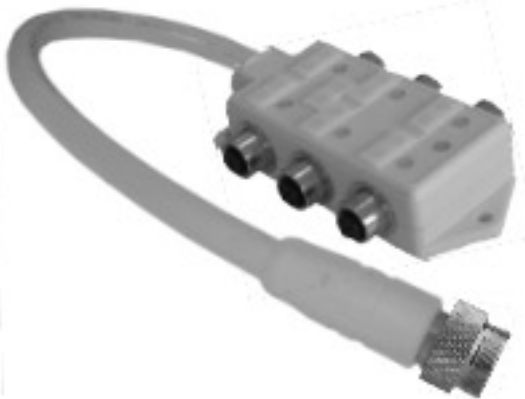
Reference pages J-1~J-17 for additional cable specification

# DISTRIBUTION BOXES(DBRSP-SERIES)

## Dimensional data



## View



# DISTRIBUTION BOXES (DBRSP-SERIES)

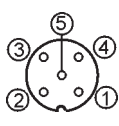

## Description

Distribution Boxes, 6 ports, Pigtail  
5 poles 3 wires, with built-in LED, with two dust covers and ten attachable molds

## Technical Data

<b>1. Application Class:</b>	-25°C to +90°C	<b>Working Voltage:</b>	10-30VDC
<b>2. Materials:</b>		<b>Insulation Resistance:</b>	>10 <sup>9</sup> Ω
Housing :	Nylon 6/6	<b>4. Mechanical Data:</b>	
Contact:	Brass, gold over nickel plating	Insertion Force (contact)	≤ 2.0N (0.45LBS)
Coupling Nut:	Aluminum, Black anodized	Withdrawal Force (contact):	≥ 0.5N (0.11LBS)
Receptacle Shell:	Brass, nickel plated	Protection:	IP68, NEMA 6P (only in fully locked position)
Insert:	PUR (Polyurethane), black	Shock:	IEC-68-2-27
O-Ring:	Viton	Vibration:	IEC-68-2-6
Molded Body:	PUR, Yellow	<b>5. CE Conformity with Standards:</b>	
Male Insert:	PUR, Yellow	EN50082-1, EN50082-2 and IEC60947-5-2	
<b>3. Electrical Data:</b>			
Contact Resistance:	≤ 5m Ω		
Current Rating:	4 Amps per outlet 12 Amp max per box		

## Order Information

Part Number	Face View Outlets	Face View of Male Plug		Wiring Diagram	
		Poles	Thread	Mini Male Pin	Outlet Pin
ASSR6-5/3PA-PZ8			1"-16	1=	6/4
				2=	5/4
				3=	4/4
				4=	3/4
				5=	2/4
				6=	1/4
				7=	1~6/3(-)
				8=	1~6/1(+)
	Pigtail length		Number of cable		
6 ports	305mm		33		

Reference pages J-1~J-17 for additional cable specification



# DISTRIBUTION BOXES (DBRSP-SERIES)

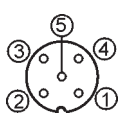

## Description

Distribution Boxes, 8 ports, Pigtail  
5 poles 3 wires, with built-in LED, with two dust covers and ten attachable molds

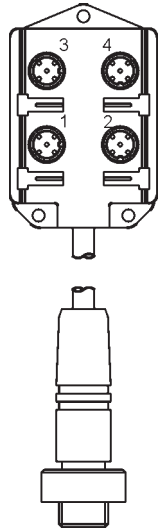
## Technical Data

1. Application Class:	-25°C to +90°C	Working Voltage:	10-30VDC
2. Materials:		Insulation Resistance:	>10 <sup>9</sup> Ω
Housing :	Nylon 6/6	4. Mechanical Data:	
Contact:	Brass, gold over nickel plating	Insertion Force (contact)	≤ 2.0N (0.45LBS)
Coupling Nut:	Aluminum, Black anodized	Withdrawal Force (contact):	≥ 0.5N (0.11LBS)
Receptacle Shell:	Brass, nickel plated	Protection:	IP68, NEMA 6P (only in fully locked position)
Insert:	PUR (Polyurethane), black	Shock:	IEC-68-2-27
O-Ring:	Viton	Vibration:	IEC-68-2-6
Molded Body:	PUR, Yellow	5. CE Conformity with Standards:	
Male Insert:	PUR, Yellow	EN50082-1, EN50082-2 and IEC60947-5-2	
3. Electrical Data:			
Contact Resistance:	≤ 5m Ω		
Current Rating:	4 Amps per outlet 12 Amp max per box		

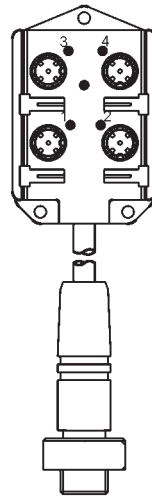
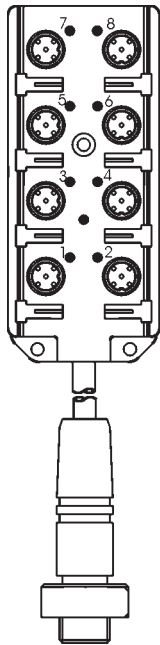
## Order Information

Part Number	Face View Outlets	Face View of Male Plug		Wiring Diagram	
		Poles	Thread	Mini Male Pin	Outlet Pin
ASSR8-5/3PA-PZ10			11/8"-16	1=	7/4
				2=	6/4
				3=	5/4
				4=	4/4
				5=	3/4
				6=	2/4
				7=	1/4
				8=	1~8/3(-)
				9=	8/4
				10=	1~8/1(+)
	Pigtail length		Number of cable		
8 ports	305mm		32		
Reference pages J-1~J-17 for additional cable specification					

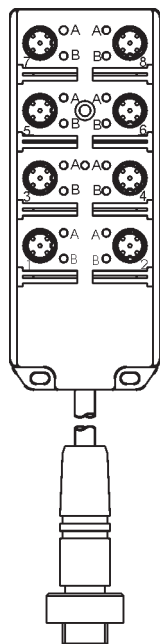




Page H38



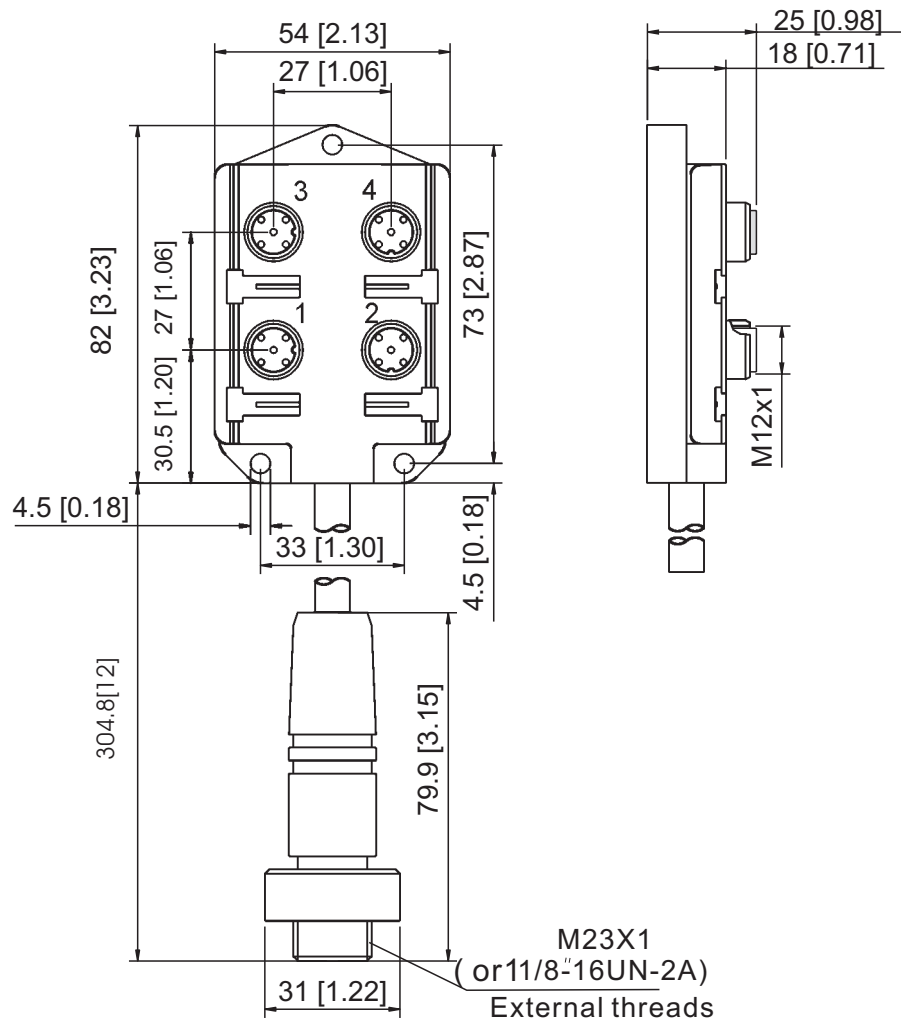
Page H40  
page H42



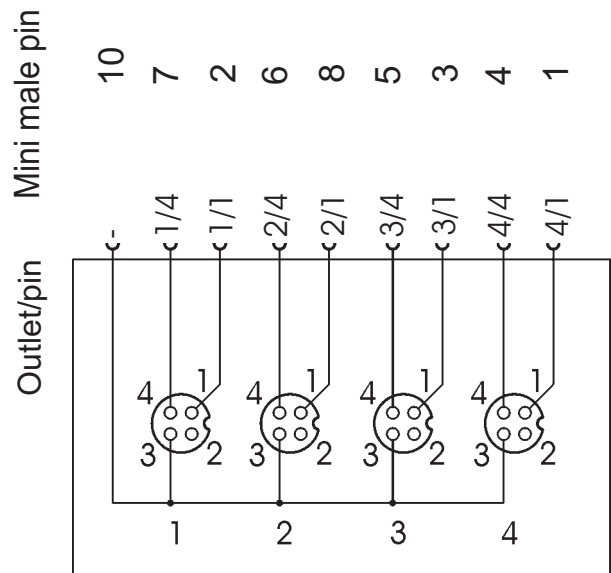
Page H44

# DISTRIBUTION BOXES(DBRP-SERIES)

## Dimensional data



## View



# DISTRIBUTION BOXES (DBRP-SERIES)


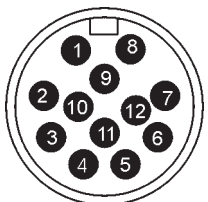
## Description

Distribution Boxes, 4 ports, Pigtail  
4 poles 3 wires, with two dust covers and ten attachable molds

## Technical Data

<b>1. Application Class:</b>	-15°C to +90°C	<b>Working Voltage:</b>	10-30VDC
<b>2. Materials:</b>		<b>Insulation Resistance:</b>	>10 <sup>9</sup> Ω
Housing :	Nylon 6/6	<b>4. Mechanical Data:</b>	
Contact:	Brass, gold over nickel plating	Insertion Force (contact)	≤ 2.0N (0.45LBS)
Coupling Nut:	Aluminum, Black anodized	Withdrawal Force (contact):	≥ 0.5N (0.11LBS)
Receptacle Shell:	Brass, nickel plated	Protection:	IP65 (only in fully locked position)
Insert:	PUR (Polyurethane), black	Shock:	IEC-68-2-27
O-Ring:	Viton	Vibration:	IEC-68-2-6
Molded Body:	PUR, Yellow	<b>5. CE Conformity with Standards:</b>	
Male Insert:	PUR, Yellow	EN50082-1, EN50082-2 and IEC60947-5-2	
<b>3. Electrical Data:</b>			
Contact Resistance:	≤ 5m Ω		
Current Rating:	4 Amps per outlet 12 Amp max per box		

## Order Information

Part Number	Face View Outlets	Face View of Male Plug		Wiring Diagram	
		Poles	Thread	Mini Male Pin	Outlet Pin
ASTR4-4/3DZ-P12			M23X1	1=	4/1
ASTR4-4/3DZ-PZ12			1 1/8"-16	2=	1/1
				3=	3/1
				4=	4/4
				5=	3/4
				6=	2/4
				7=	1/4
				8=	2/1
				9=	Blank
				10=	(-)
				11=	Blank
				12=	Blank
Pigtail length		Number of cable			
305mm		40			
Reference pages J-1~J-17 for additional cable specification					



# DISTRIBUTION BOXES (DBRP-SERIES)

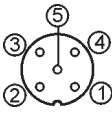
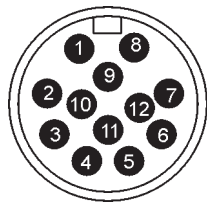
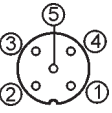

## Description

Distribution Boxes, 4-8 port, Pigtail  
5 poles 4 wires, with built-in LED(PNP). with two dust covers and ten attachable molds

## Technical Data

<b>1. Application Class:</b>	-15°C to +90°C	<b>Working Voltage:</b>	10-30VDC
<b>2. Materials:</b>		<b>Insulation Resistance:</b>	>10 <sup>9</sup> Ω
Housing :	Nylon 6/6	<b>4. Mechanical Data:</b>	
Contact:	Brass, gold over nickel plating	Insertion Force	
Coupling Nut:	Aluminum, Black anodized	(contact)	≤ 2.0N (0.45LBS)
Receptacle Shell:	Brass, nickel plated	Withdrawal Force	
Insert:	PUR(Polyurethane), black	(contact):	≥ 0.5N (0.11LBS)
O-Ring:	Viton	Protection:	IP65(only in fully locked position)
Molded Body:	PUR, Yellow	Shock:	IEC-68-2-27
Male Insert:	PUR, Yellow	Vibration:	IEC-68-2-6
<b>3. Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5m Ω	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating:	4Amps per outlet 12 Amp max per box		

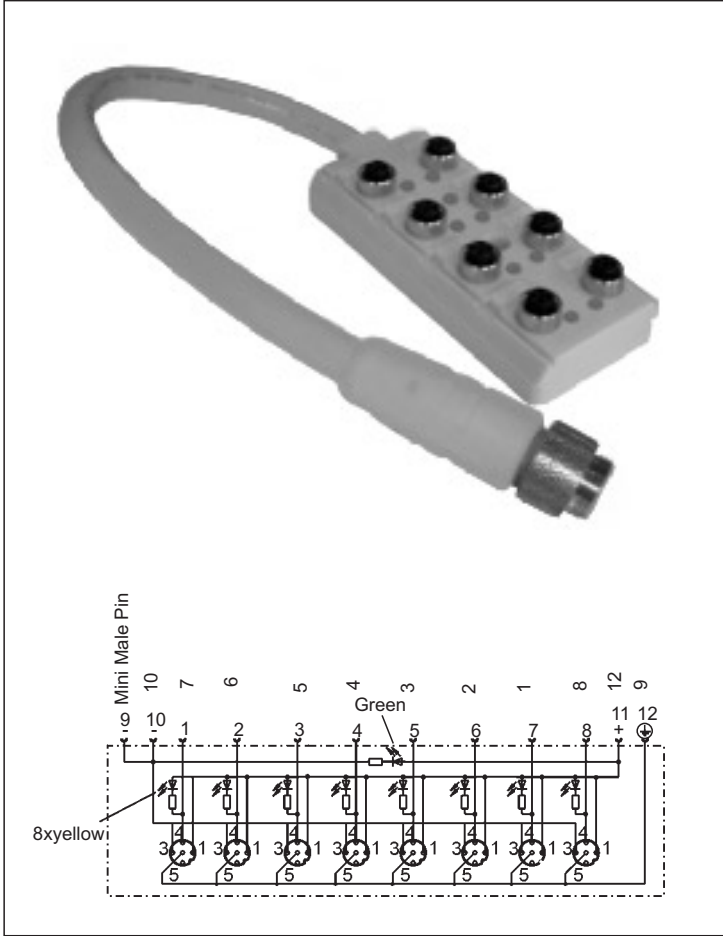
## Order Information

Part Number	Face View Outlets	Face View of Male Plug		Wiring Diagram	
		Poles	Thread	Mini Male Pin	Outlet Pin
ASTR4-5/4PA-P12			M23x1	1=	Blank
ASTR4-5/4PA-PZ12			1 1/8"-16	2=	Blank
				3=	Blank
				4=	4/4
				5=	3/4
				6=	2/4
				7=	1/4
				8=	Blank
				9=	(GND)
				10=	(-)
				11=	Blank
				12	(+)
DSTR8-5/4PA-P12			M23x1	1=	7/4
DSTR8-5/4PA-PZ12			1 1/8"-16	2=	6/4
				3=	5/4
				4=	4/4
				5=	3/4
				6=	2/4
				7=	1/4
				8=	8/4
				9=	(GND)
				10=	(-)
				11=	Blank
				12	(+)
	Pigtail length		Number of cable		
4 ports	305mm		30		
8 ports	305mm		32		

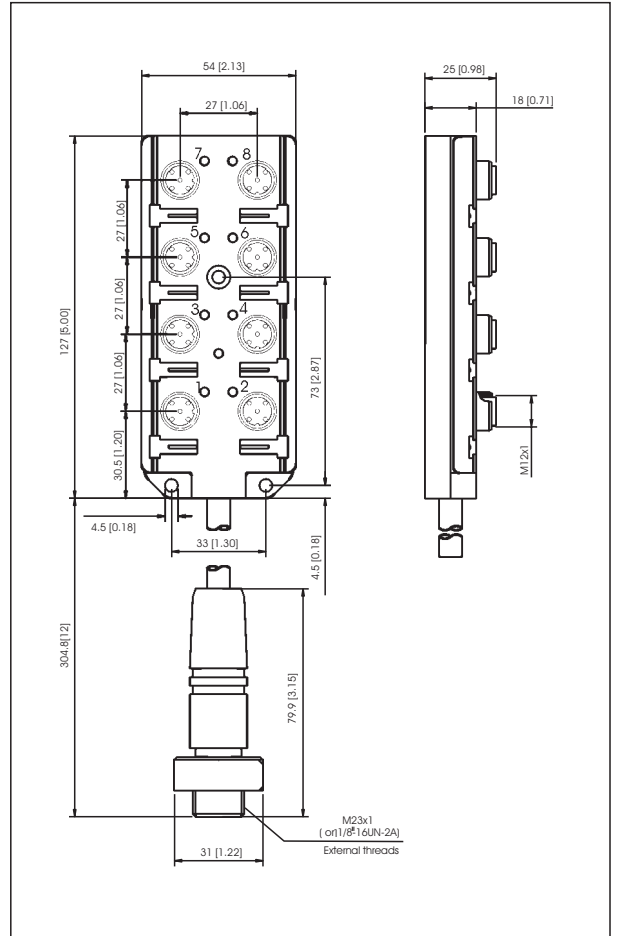
Reference pages J-1~J-17 for additional cable specification

# DISTRIBUTION BOXES(DBRP-SERIES)

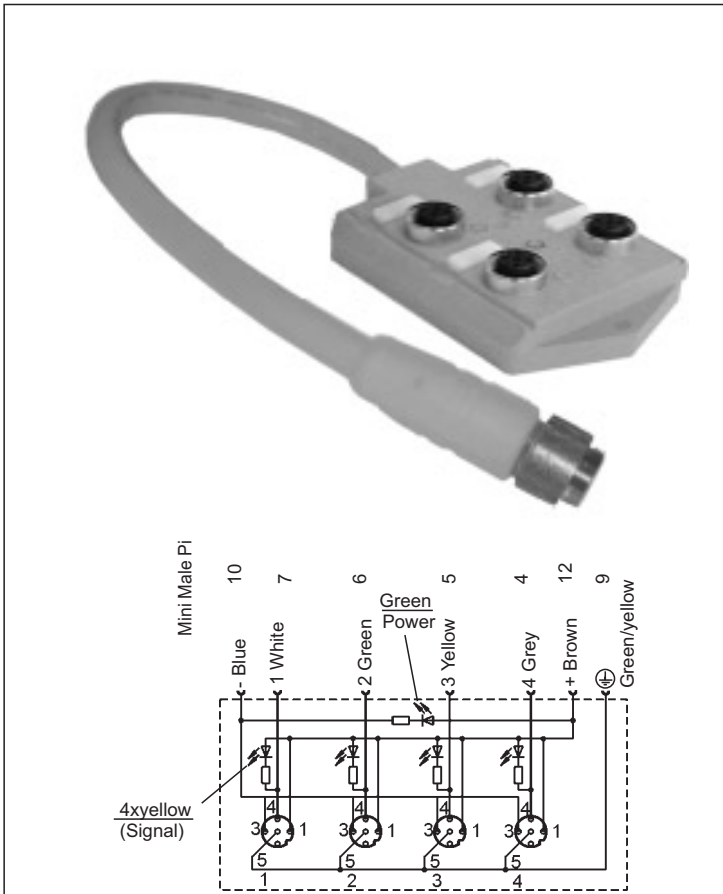
View



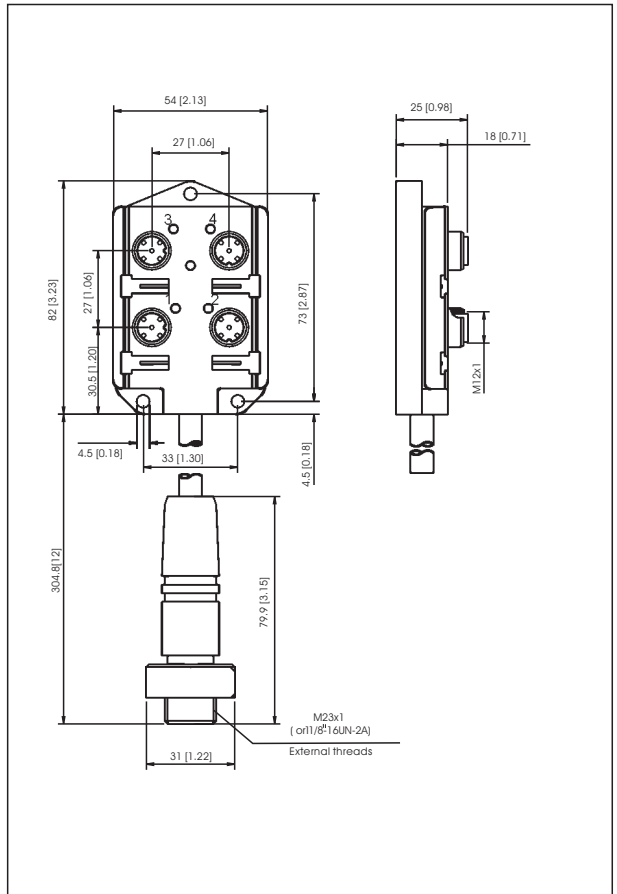
Dimensional data



View



Dimensional data



# DISTRIBUTION BOXES (DBRP-SERIES)

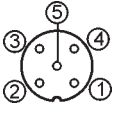

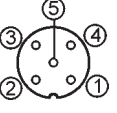

## Description

Distribution Boxes, 4-8 port, Pigtail  
5 poles 4 wires, with built-in LED (PNP), with two dust covers and ten attachable molds

## Technical Data

<b>1. Application Class:</b>	-15°C to +90°C	<b>Working Voltage:</b>	10-30VDC
<b>2. Materials:</b>		<b>Insulation Resistance:</b>	>10 <sup>9</sup> Ω
Housing :	Nylon 6/6	<b>4. Mechanical Data:</b>	
Contact:	Brass, gold over nickel plating	Insertion Force	
Coupling Nut:	Aluminum, Black anodized	(Contact):	≤ 2.0N (0.45LBS)
Receptacle Shell:	Brass, nickel plated	Withdrawal Force	
Insert:	PUR (Polyurethane), black	(contact):	≥ 0.5N (0.11LBS)
O-Ring:	Viton	Protection:	IP65 (only in fully locked position)
Molded Body:	PUR, Yellow	Shock:	IEC-68-2-27
Male Insert:	PUR, Yellow	Vibration:	IEC-68-2-6
<b>3. Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5m Ω	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating:	4Amps per outlet 12 Amp max per box		

## Order Information

Part Number	Face View Outlets	Face View of Male Plug		Wiring Diagram	
		Poles	Thread	Mini Male Pin	Outlet Pin
ASTR4-5/4NA-P12			M23x1	1=	Blank
ASTR4-5/4NA-PZ12			11/8"-16	2=	Blank
DSTR8-5/4NA-P12			M23x1	3=	Blank
DSTR8-5/4NA-PZ12			11/8"-16	4=	4/4
				5=	3/4
				6=	2/4
				7=	1/4
				8=	Blank
				9=	(gnd)
				10=	(-)
				11=	Blank
				12	(+)
		Pigtail length			
4 ports		305mm			Number of cable
					30
8 ports		305mm			
					32

Reference pages J-1~J-17 for additional cable specification





# DISTRIBUTION BOXES (DBRP-SERIES)

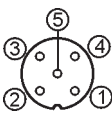
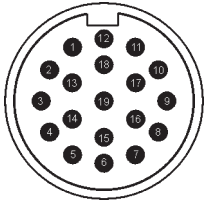
## Description

Distribution Boxes, 8 ports, Pigtail  
5 poles 5 wires, with built-in LED's, with two dust covers and ten attachable molds

## Technical Data

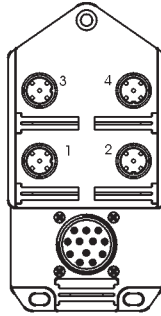
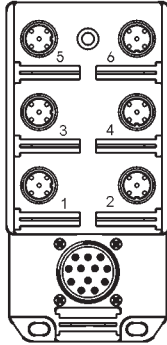
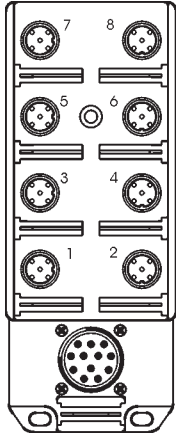
<b>1. Application Class:</b>	-15°C to + 90°C	<b>Working Voltage:</b>	10-30VDC
<b>2. Materials:</b>		<b>Insulation Resistance:</b>	>10 <sup>9</sup> Ω
Housing :	Nylon 6/6	<b>4. Mechanical Data:</b>	
Contact:	Brass, gold over nickel plating	Insertion Force	
Coupling Nut:	Aluminum, Black anodized	(contact):	≤ 2.0N (0.45LBS)
Receptacle Shell:	Brass, nickel plated	Withdrawal Force	
Insert:	PUR (Polyurethane), black	(contact):	≥ 0.5N (0.11LBS)
O-Ring:	Viton	Protection:	IP65 (only in fully locked position)
Molded Body:	PUR, Yellow	Shock:	IEC-68-2-27
Male Insert:	PUR, Yellow	Vibration:	IEC-68-2-6
<b>3. Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5m Ω	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating:	4Amps per outlet 12 Amp max per box		

## Order Information

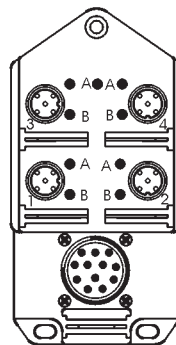
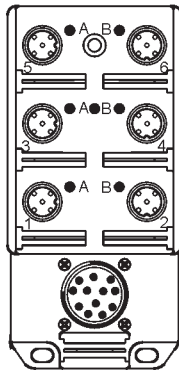
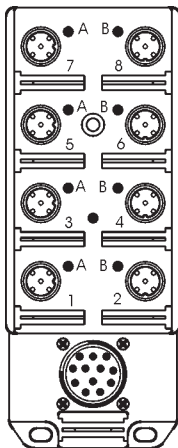
Part Number	Face View Outlets	Face View of Male Plug	Wiring Diagram	
			Mini Male Pin	Outlet Pin
DLTR8-5/5DC-P19			1=	8/4
			2=	6/4
			3=	4/4
			4=	2/2
			5=	(-)
			6=	2/4
			7=	(+)
			8=	3/1
			9=	5/2
			10=	7/2
			11=	7/4
			12=	(GND)
			13=	6/2
			14=	4/2
			15=	1/4
			16=	3/4
			17=	5/4
			18=	8/2
			19=	1/2
Pigtail length		Pigtail thread	Number of cable	
305mm		M23X1	38	

Reference pages J-1~J-17 for additional cable specification

# DISTRIBUTION BOXES *DBRTZ SERIES* INDEX



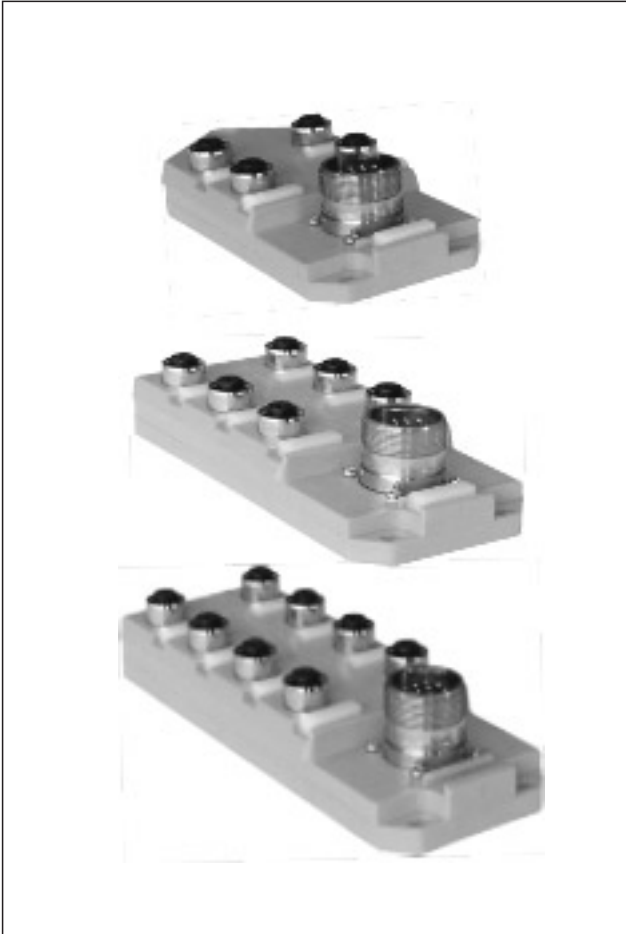
Page H48



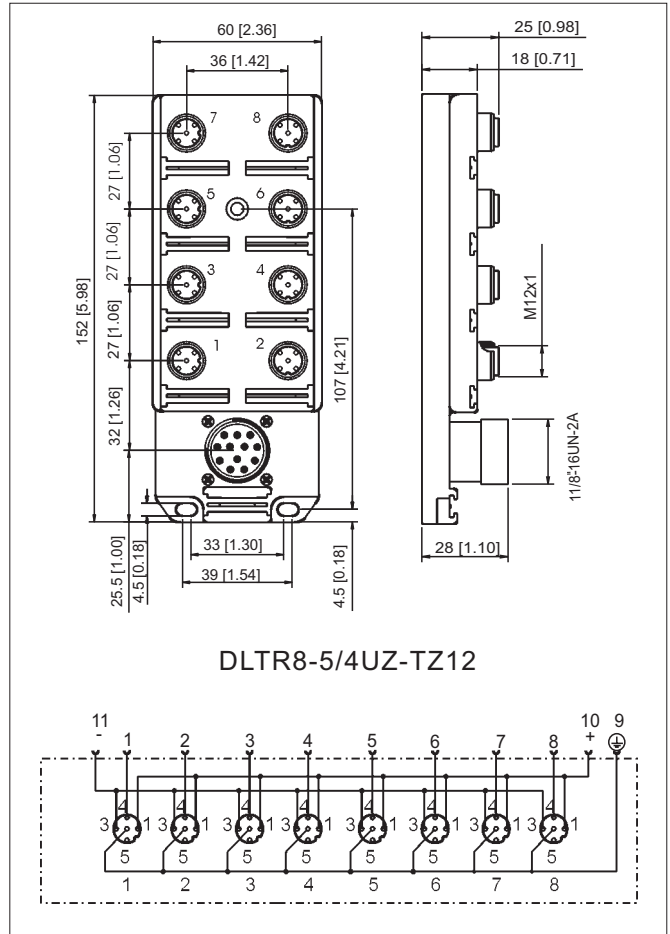
Page H50/Page H52

# DISTRIBUTION BOXES(DBRTZ-SERIES)

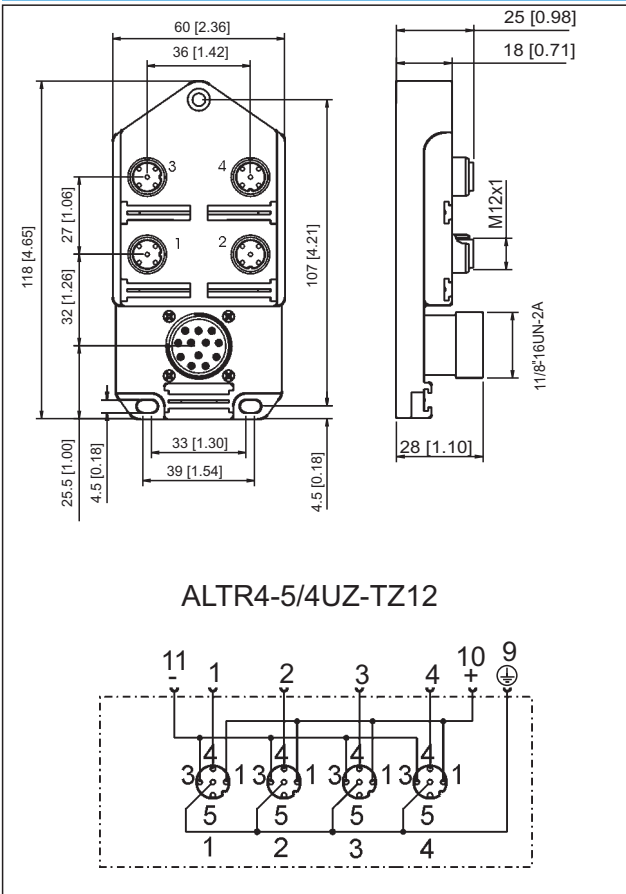
## View



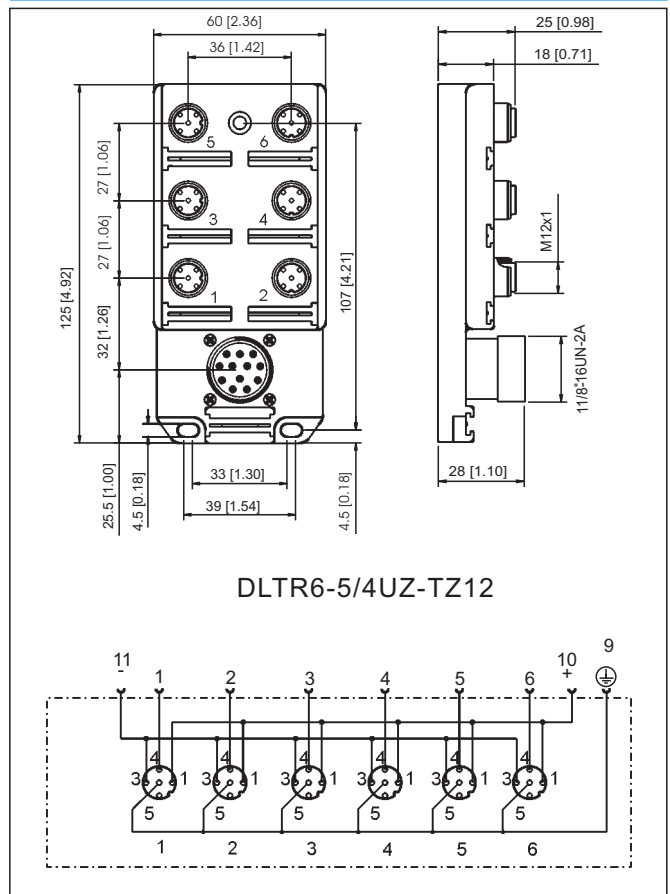
## Dimensional data



## Dimensional data



## Dimensional data



# DISTRIBUTION BOXES (DBRTZ-SERIES)

## Description

Distribution Boxes, 4-6-8 port, Quick Disconnect on Top, and poles were placed by clockwise 5 poles 4 wires, earth connection, with two dust covers and ten attachable molds

## Technical Data

<p><b>1. Application Class:</b> -15 °C to +90 °C</p> <p><b>2. Materials:</b>                  Housing : Nylon 6/6                  Contact: Brass, gold over nickel plating                  Receptacle Shell: Brass, nickel plated                  Insert: PUR (Polyurethane), black                  O-Ring: Viton</p> <p><b>3. Electrical Data:</b>                  Contact Resistance: <math>\leq 5m \Omega</math>                  Current Rating: 4 Amps per outlet                  12 Amp max per box                  Working Voltage: 60VAC/75VDC                  Insulation Resistance: <math>&gt;10^9 \Omega</math></p>	<p><b>4. Mechanical Data:</b>                  Insertion Force (contact): <math>\leq 2.0N(0.45LBS)</math>                  Withdrawal Force (contact): <math>\geq 0.5N(0.11LBS)</math>                  Protection: IP65 (only in fully locked position)                  Shock: IEC-68-2-27                  Vibration: IEC-68-2-6</p> <p><b>5. CE Conformity with Standards:</b>                  EN50082-1, EN50082-2 and IEC60947-5-2</p>
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## Order Information

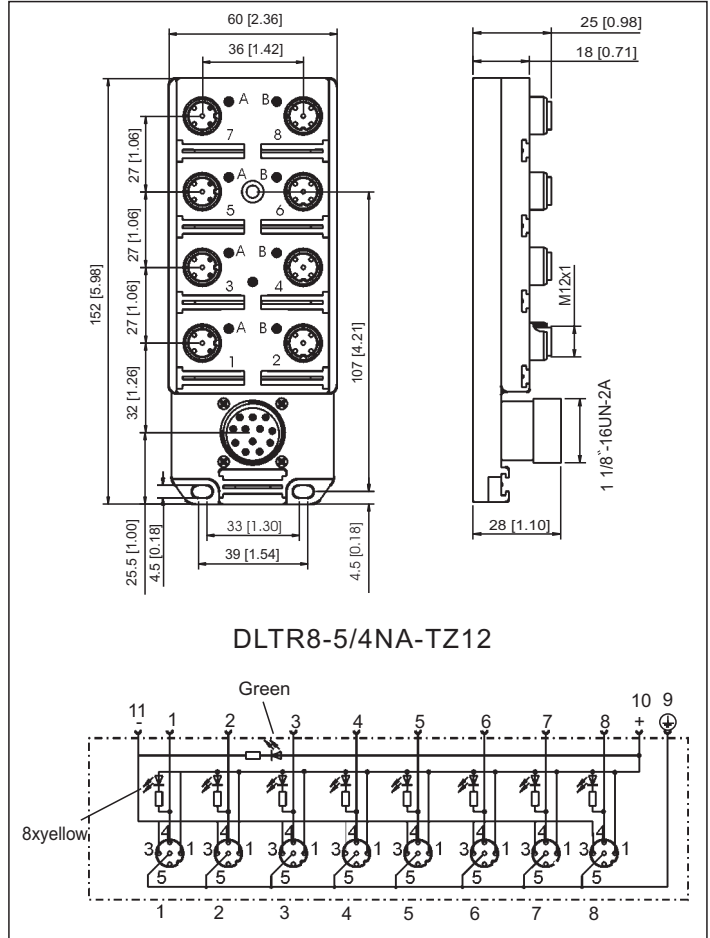
Part Number	Face View Outlets	Connector Face View		Wiring Diagram	
		Poles	Thread	Outlet Pins	Connector Pins
ALTR4-5/4UZ-TZ12			1 1/8"-16	1~4/1= 10 (+) 1~4/2= No wire 1~4/3= 11 (-) 1/ 4= 1 2/ 4= 2 3/ 4= 3 4/ 4= 4 1~4/5= 9(GND)	
DLTR6-5/4UZ-TZ12			1 1/8"-16	1~6/1= 10(+) 1~6/2= No wire 1~6/3= 11 (-) 1/ 4= 1 2/ 4= 2 3/ 4= 3 4/ 4= 4 5/ 4= 5 6/ 4= 6 1~6/5= 9 (GND)	
DLTR8-5/4UZ-TZ12			1 1/8"-16	1~8/1= 10(+) 1~8/2= No wire 1~8/3= 11 (-) 1/ 4= 1 2/ 4= 2 3/ 4= 3 4/ 4= 4 5/ 4= 5 6/ 4= 6 7/ 4= 7 8/ 4= 8 1~8/5= 9 (GND)	

# DISTRIBUTION BOXES(DBRTZ-SERIES)

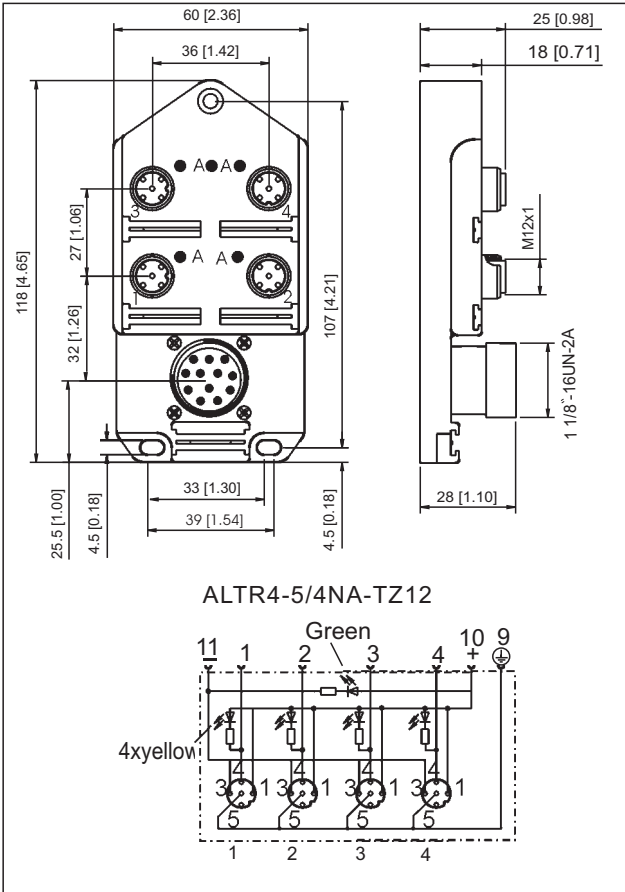
## View



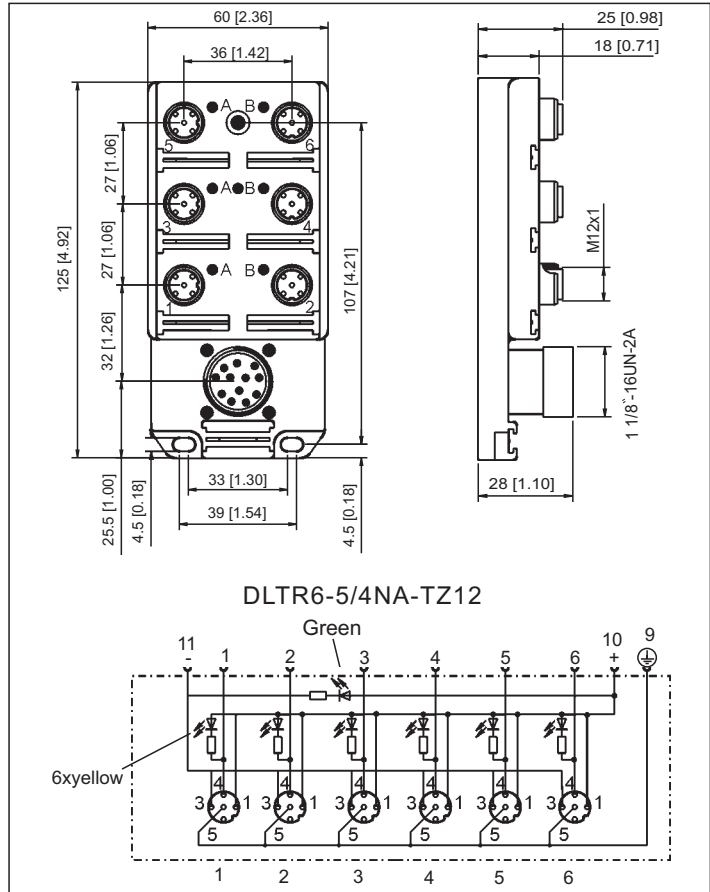
## Dimensional data



## View



## Dimensional data



# DISTRIBUTION BOXES (DBRTZ-SERIES)

## Description

Distribution Boxes, 4-6-8 port, Quick Disconnect on Top, and poles were placed by clockwise 5 poles 4 wires, with built-in LED. earth connection, with two dust covers and ten attachable molds

## Technical Data

1. Application Class: -15°C to +90°C

### 2. Materials:

Housing : Nylon 6/6  
 Contact: Brass, gold over nickel plating  
 Receptacle Shell: Brass, nickel plated  
 Insert: PUR (Polyurethane), black  
 O-Ring: Viton

### 3. Electrical Data:

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 4 Amps per outlet  
 12 Amp max per box  
 Working Voltage: 10-30VDC  
 Insulation Resistance:  $>10^9\Omega$

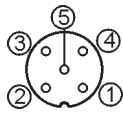
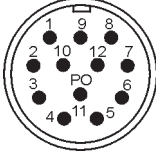
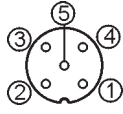
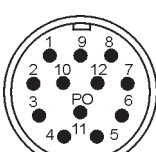
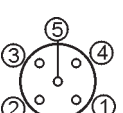
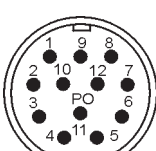
### 4. Mechanical Data:

Insertion Force (contact):  $\leq 2.0N$  (0.45LBS)  
 Withdrawal Force (contact):  $\geq 0.5N$  (0.11LBS)  
 Protection: IP65 (only in fully locked position)  
 Shock: IEC-68-2-27  
 Vibration: IEC-68-2-6

### 5. CE Conformity with Standards:

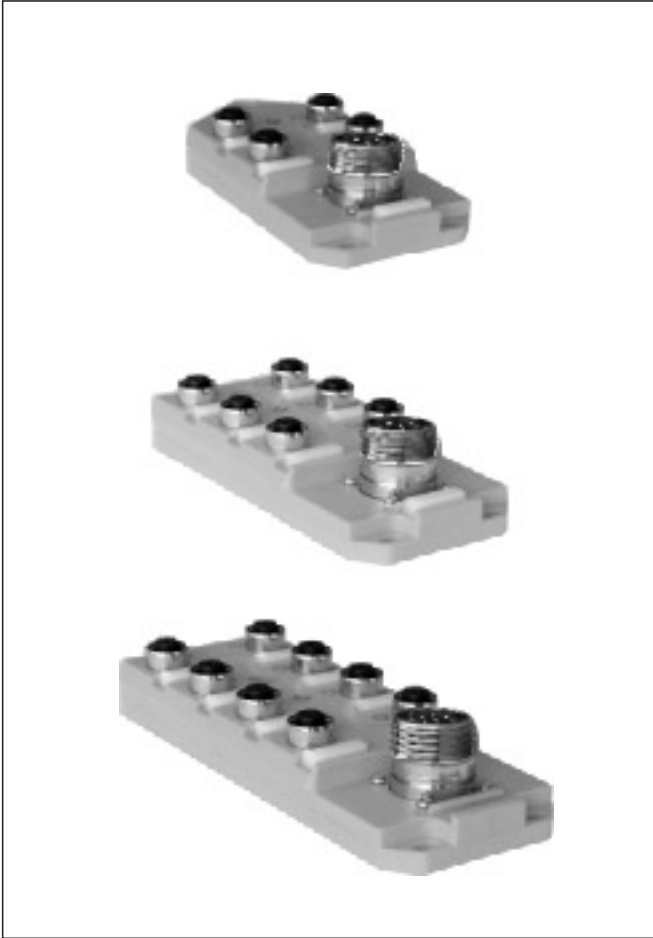
EN50082-1, EN50082-2 and IEC60947-5-2

## Order Information

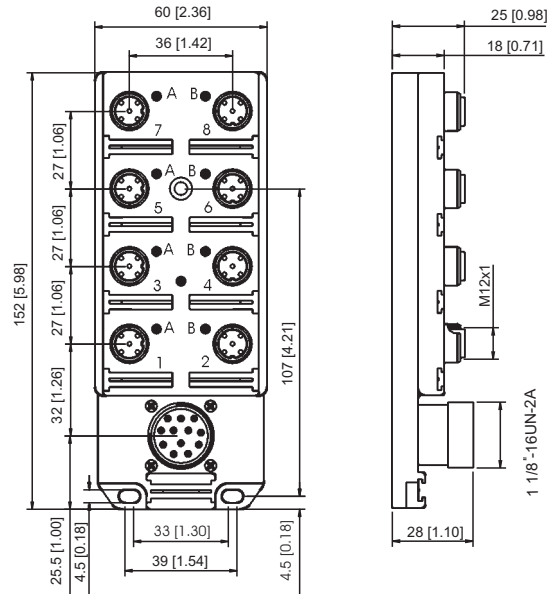
Part Number	Face View Outlets	Connector Face View		Wiring Diagram	
		Poles	Thread	Outlet Pins	Connector Pins
ALTR4-5/4NA-TZ12			1 1/8"-16	1~4/1= 10 (+) 1~4/2= No wire 1~4/3= 11 (-) 1/4= 1 2/4= 2 3/4= 3 4/4= 4 1~4/5= 9 (GND)	
DLTR6-5/4NA-TZ12			1 1/8"-16	1~6/1= 10 (+) 1~6/2= No wire 1~6/3= 11 (-) 1/4= 1 2/4= 2 3/4= 3 4/4= 4 5/4= 5 6/4= 6 1~6/5= 9 (GND)	
DLTR8-5/4NA-TZ12			1 1/8"-16	1~8/1= 10 (+) 1~8/2= No wire 1~8/3= 11 (-) 1/4= 1 2/4= 2 3/4= 3 4/4= 4 5/4= 5 6/4= 6 7/4= 7 8/4= 8 1~8/5= 9 (GND)	

# DISTRIBUTION BOXES(DBRTZ-SERIES)

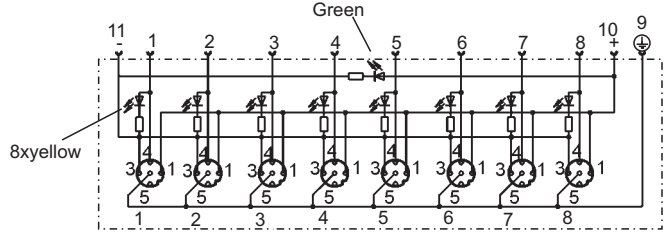
## View



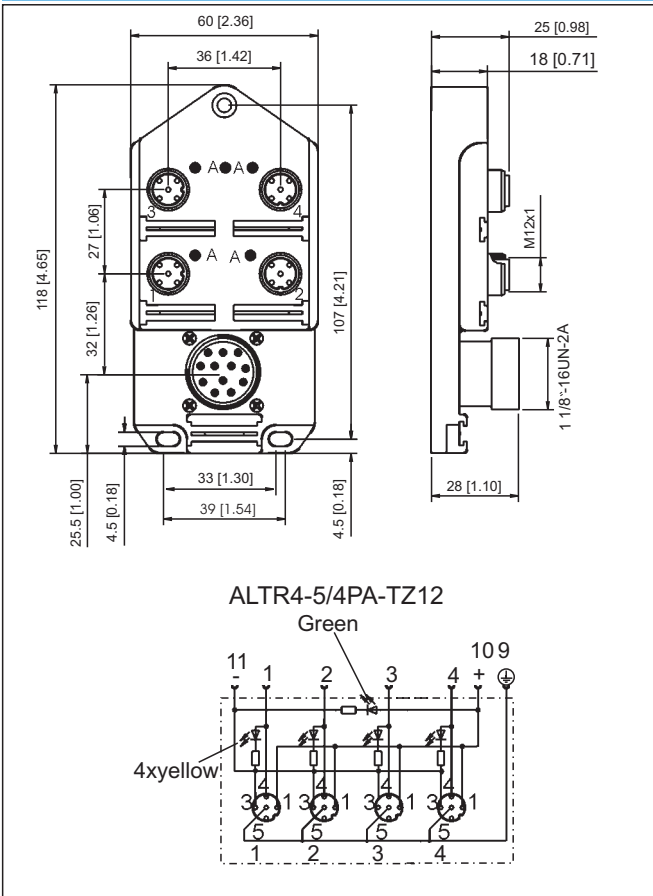
## Dimensional data



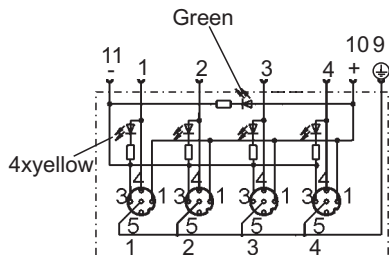
DLTR8-5/4PA-TZ12



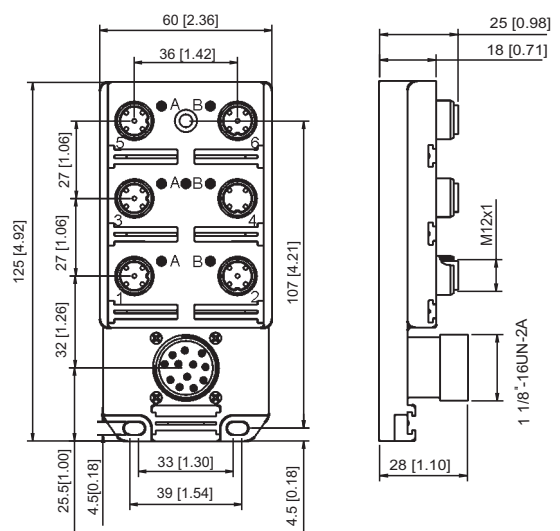
## View



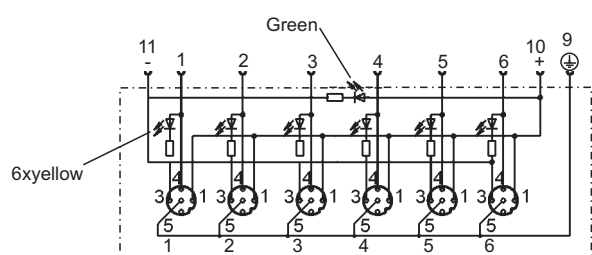
ALTR4-5/4PA-TZ12



## Dimensional data



DLTR6-5/4PA-TZ12



# DISTRIBUTION BOXES (DBRTZ-SERIES)

## Description

Distribution Boxes, 4-6-8 port, Quick Disconnect on Top, and poles were placed by clockwise 5 poles 4 wires, with built-in LED. earth connection with two dust covers and ten attachable molds

## Technical Data

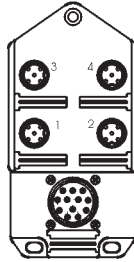
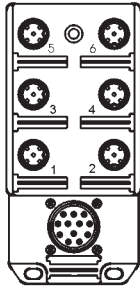
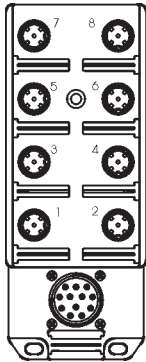
<p><b>1. Application Class:</b> -15°C to +90°C</p> <p><b>2. Materials:</b>                  Housing : Nylon 6/6                  Contact: Brass, gold over nickel plating                  Receptacle Shell: Brass, nickel plated                  Insert: PUR (Polyurethane), black                  O-Ring: Viton</p> <p><b>3. Electrical Data:</b>                  Contact Resistance: <math>\leq 5m \Omega</math>                  Current Rating: 4 Amps per outlet                  12 Amp max per box                  Working Voltage: 10-30VDC                  Insulation Resistance: <math>&gt;10^9 \Omega</math></p>	<p><b>4. Mechanical Data:</b>                  Insertion Force (contact): <math>\leq 2.0N</math> (0.45LBS)                  Withdrawal Force (contact): <math>\geq 0.5N</math> (0.11LBS)                  Protection: IP65 (only in fully locked position)                  Shock: IEC-68-2-27                  Vibration: IEC-68-2-6</p> <p><b>5. CE Conformity with Standards:</b>                  EN50082-1, EN50082-2 and IEC60947-5-2</p>
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## Order Information

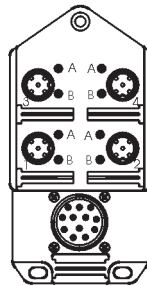
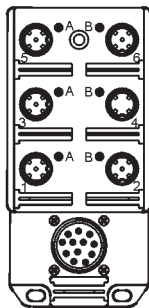
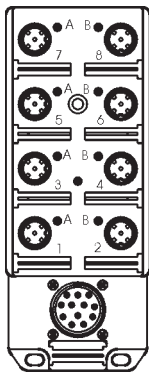
Part Number	Face View Outlets	Connector Face View		Wiring Diagram	
		Poles	Thread	Outlet Pins	Connector Pins
ALTR4-5/4PA-TZ12			1 1/8"-16	1~4/1= 1~4/2= 1~4/3= 1/ 4= 2/ 4= 3/ 4= 4/ 4= 1~4/5=	10 (+) No wire 11 (-) 1 2 3 4 9 (GND)
DLTR6-5/4PA-TZ12			1 1/8"-16	1~6/1= 1~6/2= 1~6/3= 1/ 4= 2/ 4= 3/ 4= 4/ 4= 5/ 4= 6/ 4= 1~6/5=	10 (+) No wire 11 (-) 1 2 3 4 5 6 9 (GND)
DLTR8-5/4PA-TZ12			1 1/8"-16	1~8/1= 1~8/2= 1~8/3= 1/ 4= 2/ 4= 3/ 4= 4/ 4= 5/ 4= 6/ 4= 7/ 4= 8/ 4= 1~8/5=	10 (+) No wire 11 (-) 1 2 3 4 5 6 7 8 9 (GND)



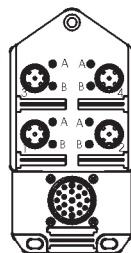
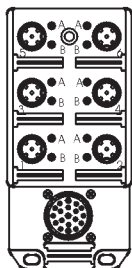
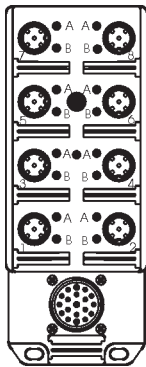
# DISTRIBUTION BOXES *DBRT SERIES* INDEX



Page H56



Page H58/page H60



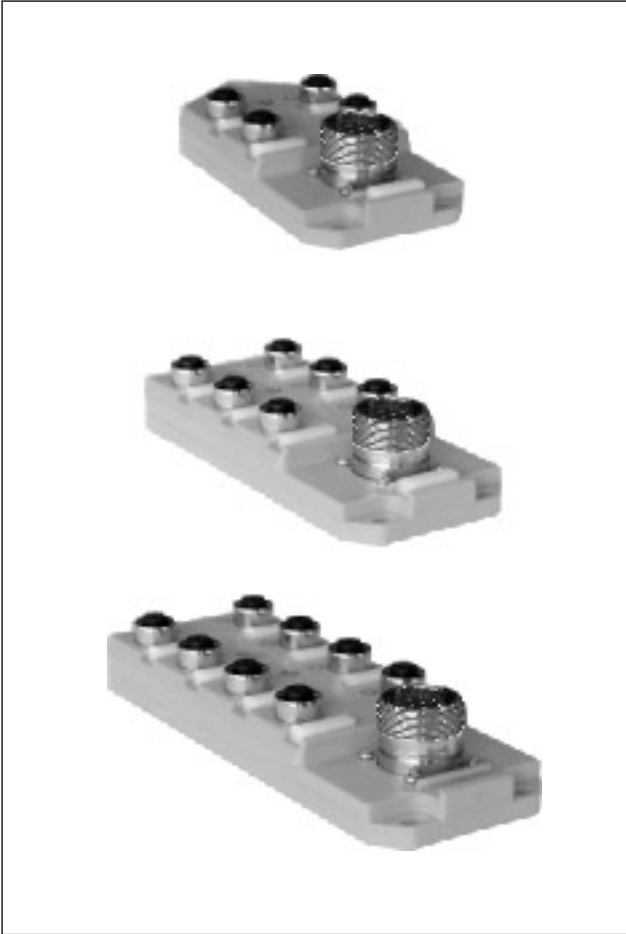
Page H62

Page H64

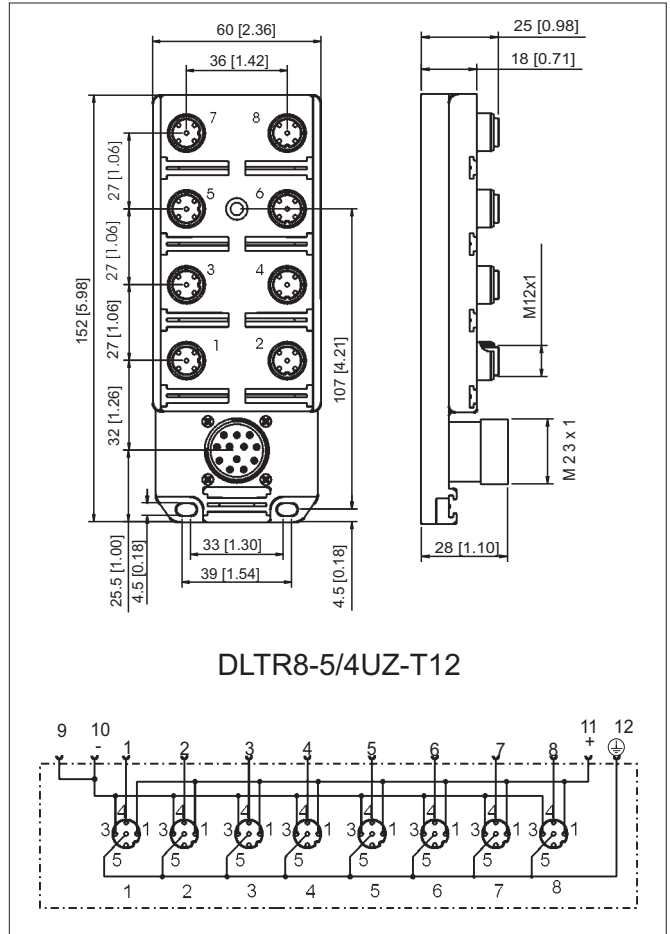
Page H66

# DISTRIBUTION BOXES(DBRT-SERIES)

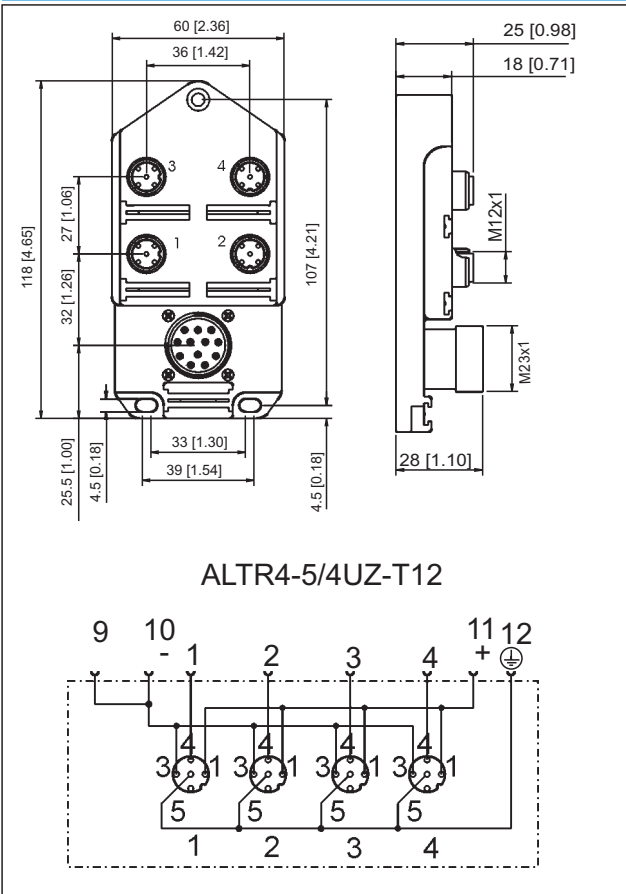
## View



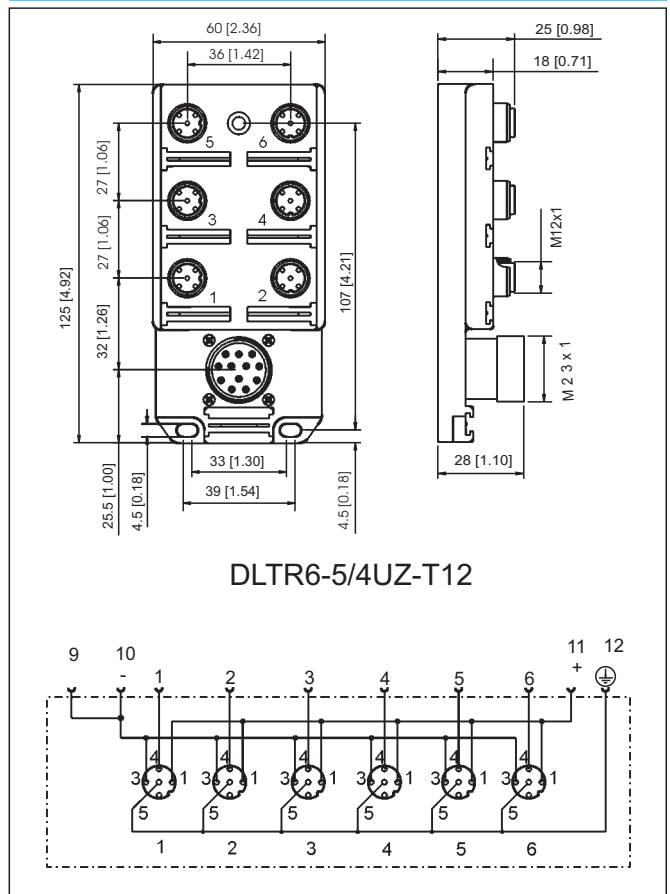
## Dimensional data



## Dimensional data



## Dimensional data



# DISTRIBUTION BOXES (DBRT-SERIES)

## Description

Distribution Boxes, 4-6-8 port, Quick Disconnect on Top, and poles were placed by counter-clockwise 5 poles 4 wires, earth connection, with two dust covers and ten attachable molds

## Technical Data

<p><b>1. Application Class:</b> -15 °C to +90 °C</p> <p><b>2. Materials:</b>                  Housing : Nylon 6/6                  Contact: Brass,gold over nickel plating                  Receptacle Shell: Brass,nickel plated                  Insert: PUR(Polyurethane),black                  O-Ring: Viton</p> <p><b>3. Electrical Data:</b>                  Contact Resistance: <math>\leq 5m\ \Omega</math>                  Current Rating: 4 Amps per outlet                  12 Amp max per box                  Working Voltage: 60VAC/75VDC                  Insulation Resistance: <math>&gt;10^9\ \Omega</math></p>	<p><b>4. Mechanical Data:</b>                  Insertion Force (contact): <math>\leq 2.0N(0.45LBS)</math>                  Withdrawal Force (contact): <math>\geq 0.5N (0.11LBS)</math>                  Protection: IP65(only in fully locked position)                  Shock: IEC-68-2-27                  Vibration: IEC-68-2-6</p> <p><b>5. CE Conformity with Standards:</b>                  EN50082-1, EN50082-2 and IEC60947-5-2</p>
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## Order Information

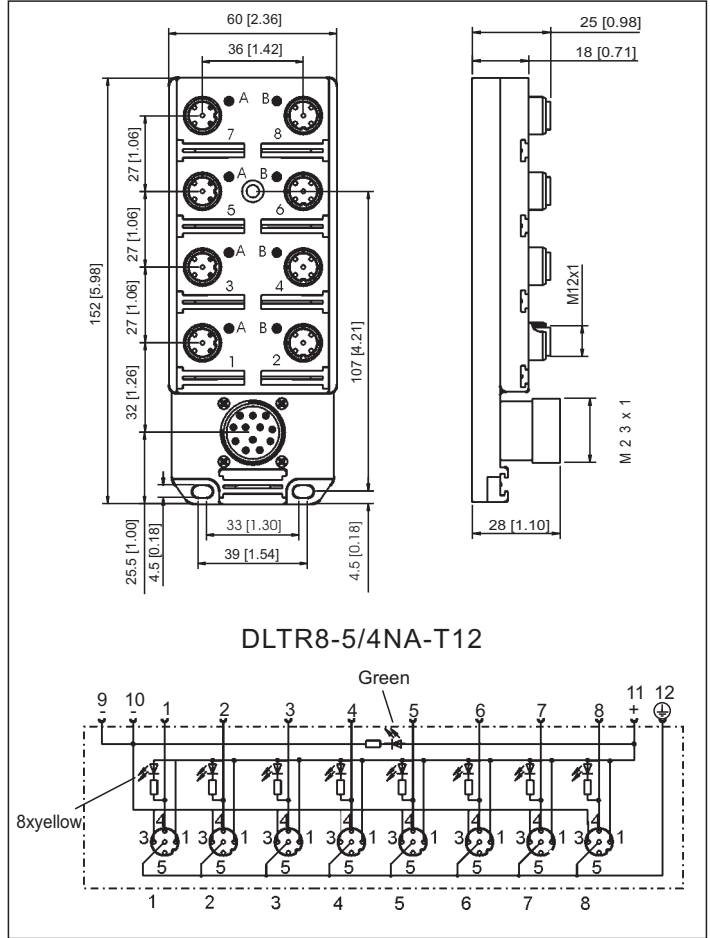
Part Number	Face View Outlets	Connector Face View		Wiring Diagram	
		Poles	Thread	Outlet Pins	Connector Pins
ALTR4-5/4UZ-T12			M23x1	1~4/1= 11(+) 1~4/2= No wire 1~4/3= 9 bridged 10 (-) 1/ 4= 1 2/ 4= 2 3/ 4= 3 4/ 4= 4 1~4/5= 12(GND)	
DLTR6-5/4UZ-T12			M23x1	1~6/1= 11 (+) 1~6/2= No wire 1~6/3= 9 bridged 10(-) 1/ 4= 1 2/ 4= 2 3/ 4= 3 4/ 4= 4 5/ 4= 5 6/ 4= 6 1~6/5= 12 (GND)	
DLTR8-5/4UZ-T12			M23x1	1~8/1= 11 (+) 1~8/2= No wire 1~8/3= 9 bridged 10(-) 1/ 4= 1 2/ 4= 2 3/ 4= 3 4/ 4= 4 5/ 4= 5 6/ 4= 6 7/ 4= 7 8/ 4= 8 1~8/5= 12 (GND)	

# DISTRIBUTION BOXES(DBRT-SERIES)

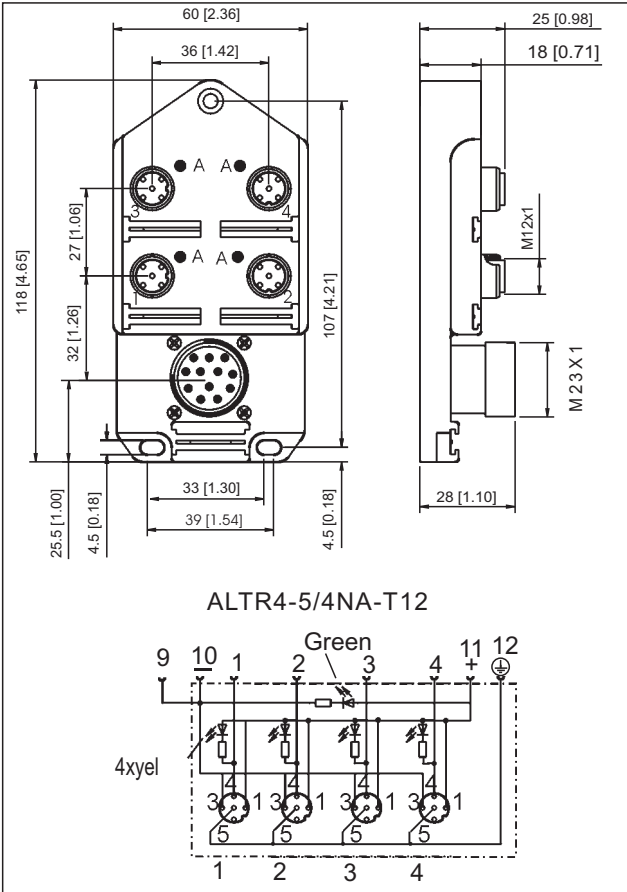
## View



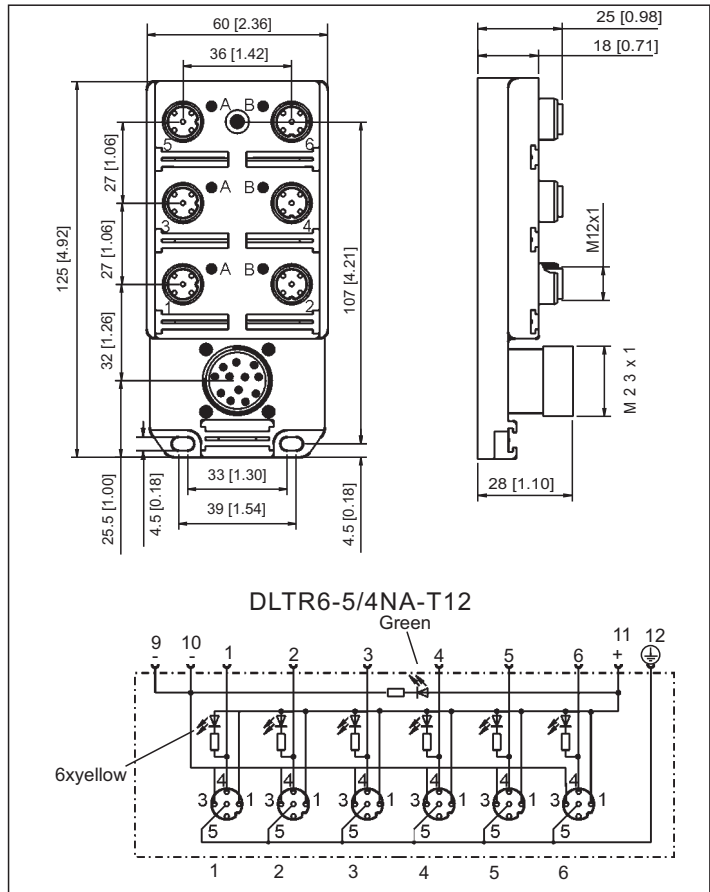
## Dimensional data



## View



## Dimensional data



# DISTRIBUTION BOXES (DBRT-SERIES)

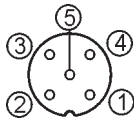
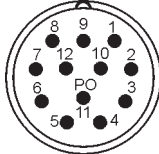
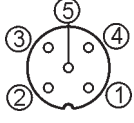
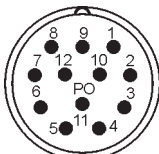
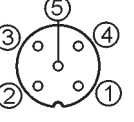
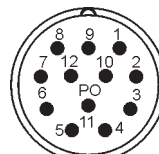
## Description

Distribution Boxes, 4-6-8 port, Quick Disconnect on Top, and poles were placed by counter-clockwise 5 poles 4 wires, with built-in LED. earth connection, with two dust covers and ten attachable molds

## Technical Data

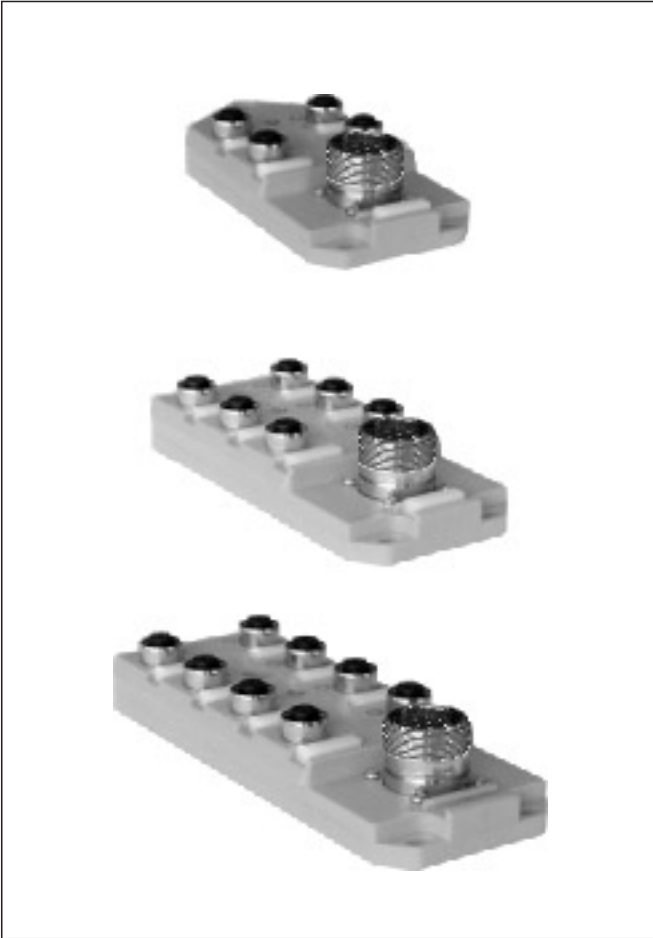
<p><b>1. Application Class:</b> -15 °C to +90 °C</p> <p><b>2. Materials:</b>                  Housing : Nylon 6/6                  Contact: Brass, gold over nickel plating                  Receptacle Shell: Brass, nickel plated                  Insert: PUR (Polyurethane), black                  O-Ring: Viton</p> <p><b>3. Electrical Data:</b>                  Contact Resistance: <math>\leq 5m\Omega</math>                  Current Rating: 4 Amps per outlet                  12 Amp max per box                   Working Voltage: 10-30VDC                  Insulation Resistance: <math>&gt;10^9\Omega</math></p>	<p><b>4. Mechanical Data:</b>                  Insertion Force (contact): <math>\leq 2.0N</math> (0.45LBS)                  Withdrawal Force (contact): <math>\geq 0.5N</math> (0.11LBS)                  Protection: IP65 (only in fully locked position)                   Shock: IEC-68-2-27                  Vibration: IEC-68-2-6</p> <p><b>5. CE Conformity with Standards:</b>                  EN50082-1, EN50082-2 and IEC60947-5-2</p>
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## Order Information

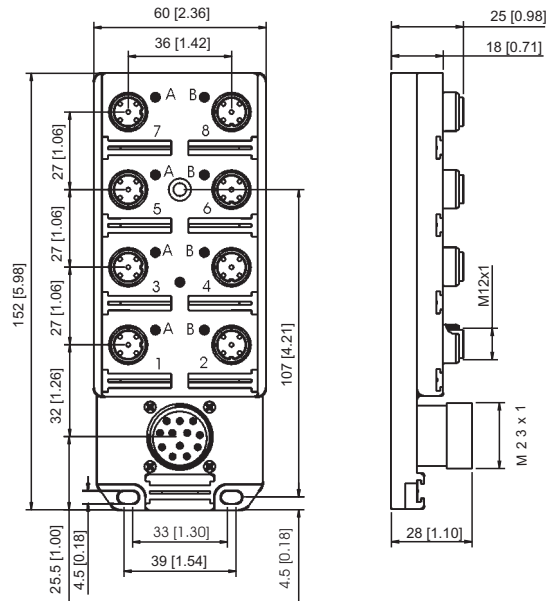
Part Number	Face View Outlets	Connector Face View		Wiring Diagram	
		Poles	Thread	Outlet Pins	Connector Pins
ALTR4-5/4NA-T12			M23x1	1~4/1= 1~4/2= 1~4/3= 1/ 4= 2/ 4= 3/ 4= 4/ 4= 1~4/5=	11 (+) No wire 9 bridged 10 (-) 1 2 3 4 12 (GND)
DLTR6-5/4NA-T12			M23x1	1~6/1= 1~6/2= 1~6/3= 1/ 4= 2/ 4= 3/ 4= 4/ 4= 5/ 4= 6/ 4= 1~6/5=	11 (+) No wire 9 bridged 10 (-) 1 2 3 4 5 6 12 (GND)
DLTR8-5/4NA-T12			M23x1	1~8/1= 1~8/2= 1~8/3= 1/ 4= 2/ 4= 3/ 4= 4/ 4= 5/ 4= 6/ 4= 7/ 4= 8/ 4= 1~8/5=	11 (+) No wire 9 bridged 10 (-) 1 2 3 4 5 6 7 8 12 (GND)

# DISTRIBUTION BOXES(DBRT-SERIES)

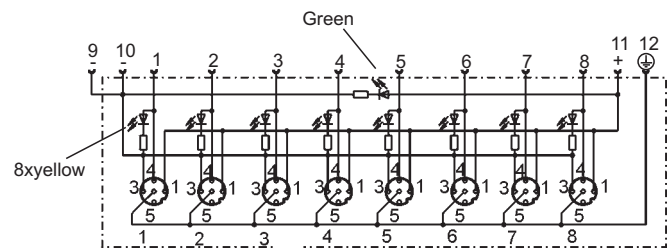
## View



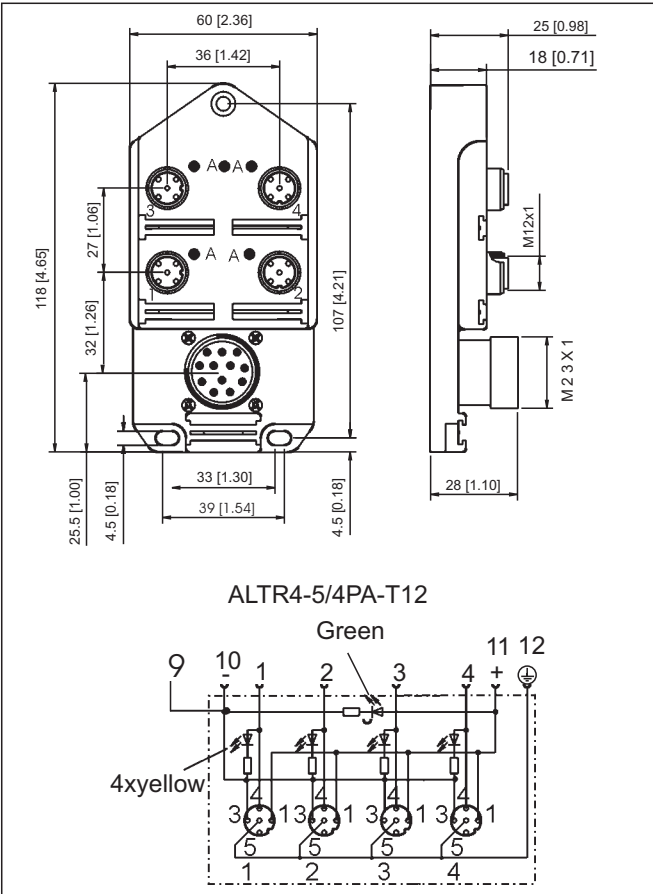
## Dimensional data



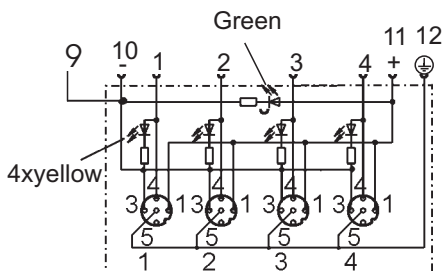
DLTR8-5/4PA-T12



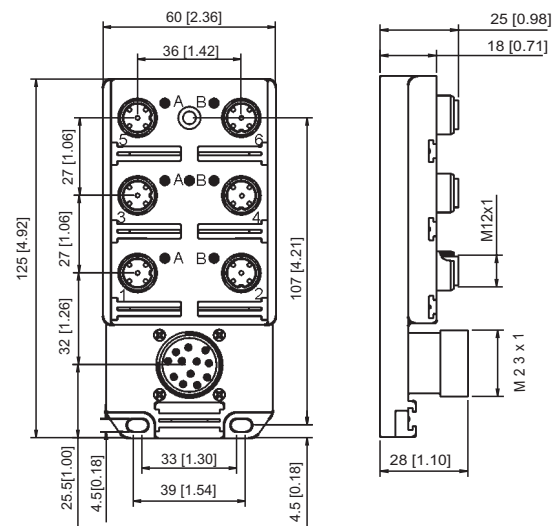
## View



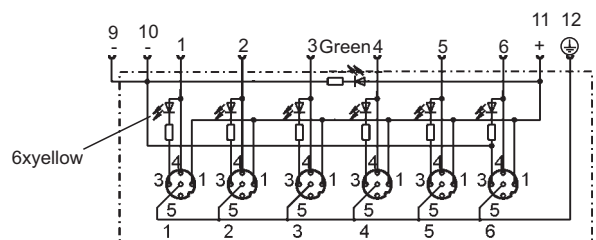
ALTR4-5/4PA-T12



## Dimensional data



DLTR6-5/4PA-T12



# DISTRIBUTION BOXES (DBRT-SERIES)

## Description

Distribution Boxes, 4-6-8 port, Quick Disconnect on Top, and poles were placed by counter-clockwise  
5 poles 4 wires, with built-in LED. earth connection, with two dust covers and ten attachable molds

## Technical Data

1. Application Class: -15°C to +90°C

### 2. Materials:

Housing : Nylon 6/6  
Contact: Brass, gold over nickel plating  
Receptacle Shell: Brass, nickel plated  
Insert: PUR (Polyurethane), black  
O-Ring: Viton

### 3. Electrical Data:

Contact Resistance:  $\leq 5m\Omega$   
Current Rating: 4 Amps per outlet  
12 Amp max per box  
Working Voltage: 10-30VDC  
Insulation Resistance:  $>10^9 \Omega$

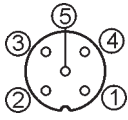
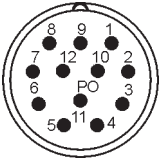
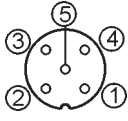
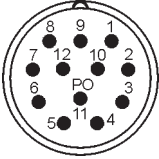
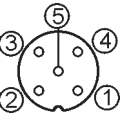
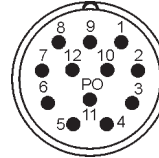
### 4. Mechanical Data:

Insertion Force (contact):  $\leq 2.0N$  (0.45LBS)  
Withdrawal Force (contact):  $\geq 0.5N$  (0.11LBS)  
Protection: IP65 (only in fully locked position)  
Shock: IEC-68-2-27  
Vibration: IEC-68-2-6

### 5. CE Conformity with Standards:

EN50082-1, EN50082-2 and IEC60947-5-2

## Order Information

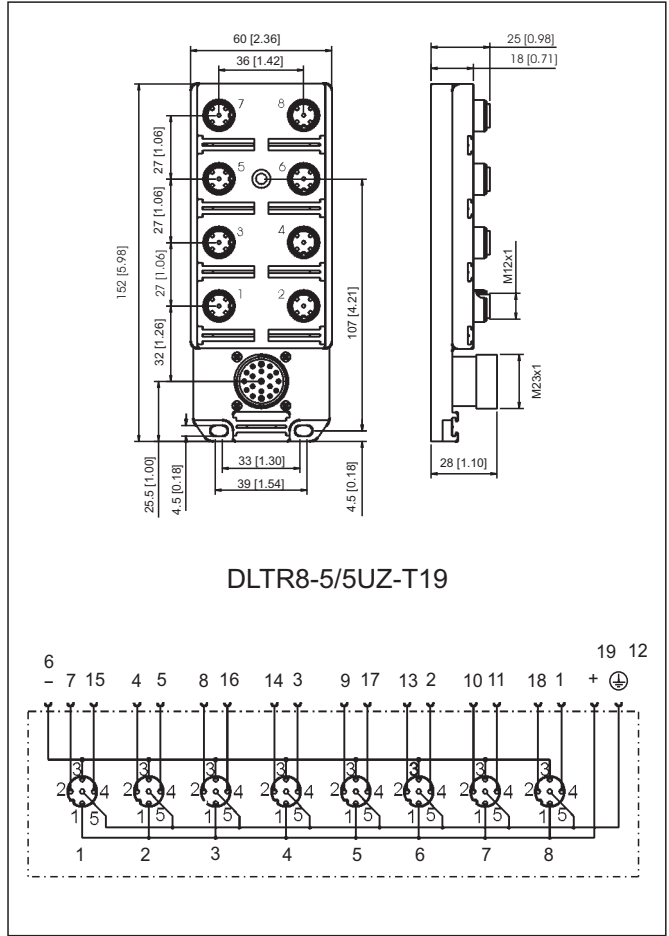
Part Number	Face View Outlets	Connector Face View		Wiring Diagram	
		Poles	Thread	Outlet Pins	Connector Pins
ALTR4-5/4PA-T12			M23x1	1~4/1= 1~4/2= 1~4/3= 1 /4= 2 /4= 3 /4= 4 /4= 1~4/5=	11 (+) No wire 9 bridged 10(-) 1 2 3 4 12 (GND)
DLTR6-5/4PA-T12			M23x1	1~6/1= 1~6/2= 1~6/3= 1 /4= 2 /4= 3 /4= 4 /4= 5 /4= 6 /4= 1~6/5=	11 (+) No wire 9 bridged 10(-) 1 2 3 4 5 6 12 (GND)
DLTR8-5/4PA-T12			M23x1	1~8/1= 1~8/2= 1~8/3= 1 /4= 2 /4= 3 /4= 4 /4= 5 /4= 6 /4= 7 /4= 8 /4= 1~8/5=	11 (+) No wire 9 bridged 10(-) 1 2 3 4 5 6 7 8 12 (GND)

# DISTRIBUTION BOXES(DBRT-SERIES)

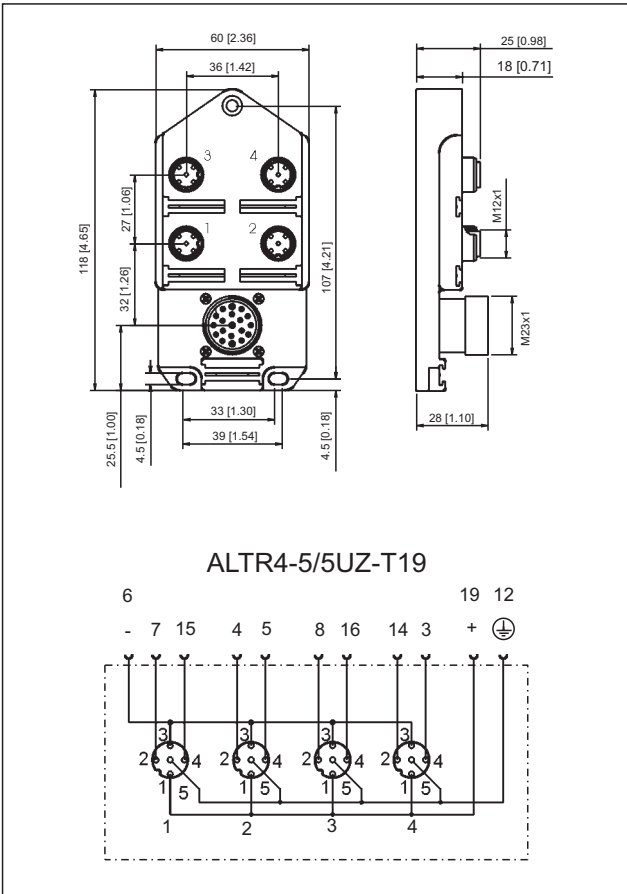
## View



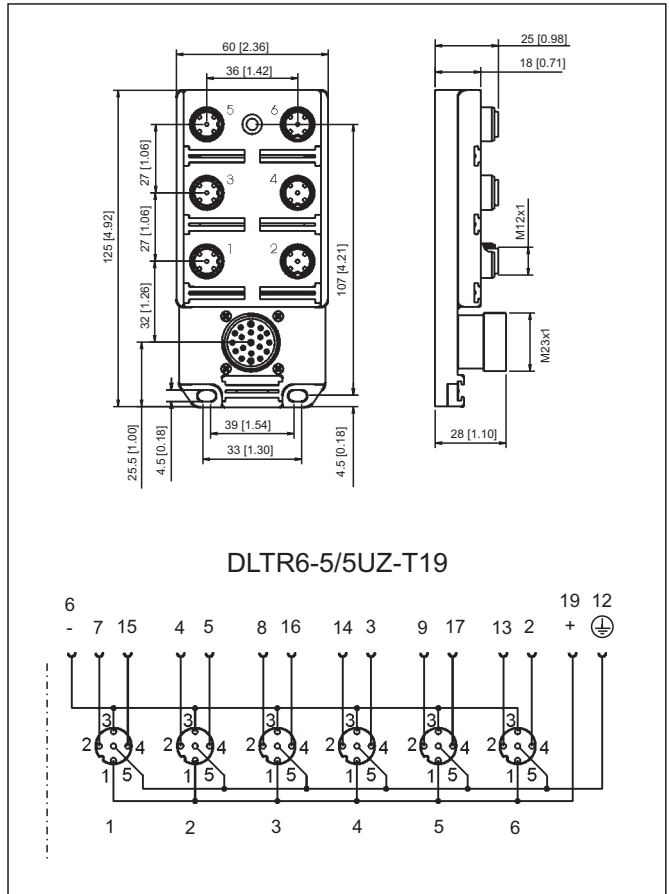
## Dimensional data



## Dimensional data



## Dimensional data





# DISTRIBUTION BOXES (DBRT-SERIES)

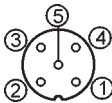
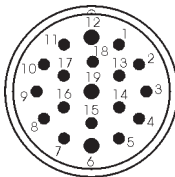

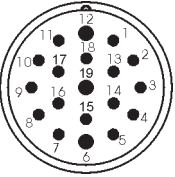
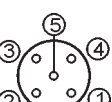
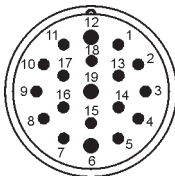
## Description

Distribution Boxes, 4-6-8 port, Quick Disconnect on Top, and poles were placed by counter-clockwise 5 poles 5 wires, earth connection, with two dust covers and ten attachable molds

## Technical Data

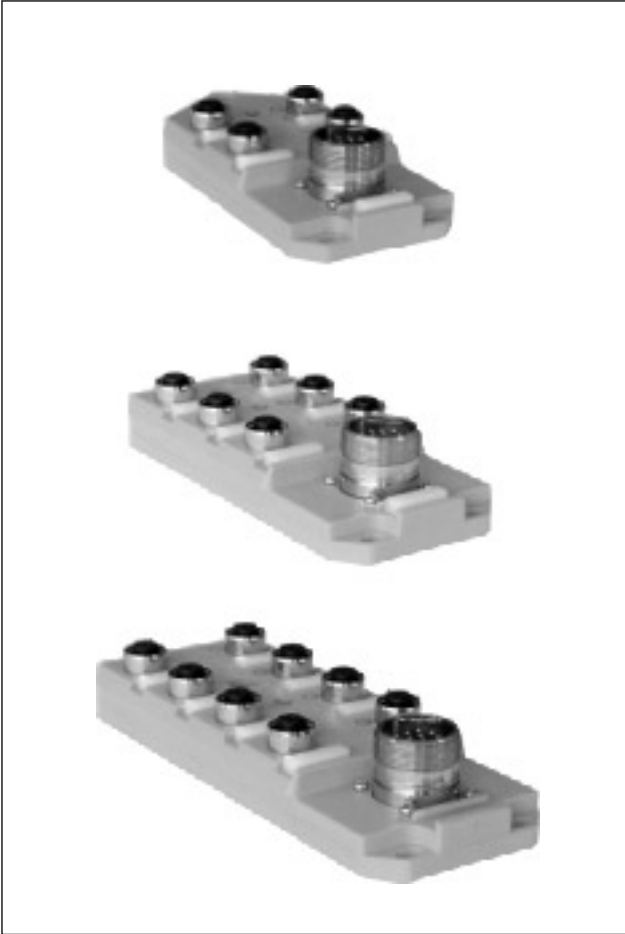
<b>1.Application Class:</b>	-15°C to +90°C	<b>4.Mechanical Data:</b>	
<b>2.Materials:</b>		Insertion Force	
Housing :	Nylon 6/6	(Contact):	≤ 2.0N (45LBS)
Contact:	Brass, gold over nickel plating	Withdrawal Force	
Receptacle Shell:	Brass. Nickel plated	(contact):	≥ 0.5N (11LBS)
Insert:	PUR(polyurethane), black	Protection:	IP65(only in fully locked position)
O-Ring:	Viton	Shock:	IEC-68-2-27
		Vibration:	IEC-68-2-6
<b>3.Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5m Ω	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating:	4Amps per outlet 12 Amp max per box		
Working Voltage:	60VAC/75VDC		
Insulation Resistance:	>10 <sup>9</sup> Ω		

## Order Information

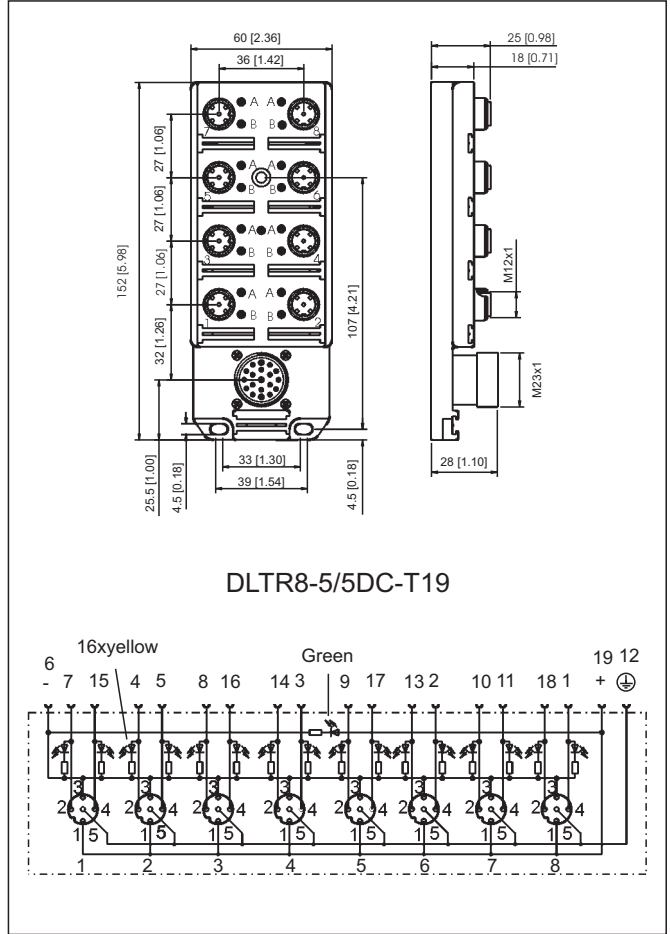
Part Number	Face View Outlets	Poles	Thread	Wiring Diagram	
				Outlet Pins	Connector Pins
ALTR4-5/5UZ-T19			M23x1	1~4/1= 1~4/3= 1/ 2= 2/ 2= 3/ 2= 4/ 2= 1/ 4= 2/ 4= 3/ 4= 4/ 4= 1~4/5=	19 (+) 6 (-) 7 4 8 14 15 5 16 3 12 (GND)
DLTR6-5/5UZ-T19			M23x1	1~6/1= 1~6/3= 1/ 2= 2/ 2= 3/ 2= 4/ 2= 5/ 2= 6/ 2= 1/ 4= 2/ 4= 3/ 4= 4/ 4= 5/ 4= 6/ 4= 1~6/5=	19 (+) 6 (-) 7 4 8 14 9 13 15 5 16 3 17 2 12 (GND)
DLTR8-5/5UZ-T19			M23x1	1~8/1= 1~8/3= 1/ 2= 2/ 2= 3/ 2= 4/ 2= 5/ 2= 6/ 2= 7/ 2= 8/ 2= 1/ 4= 2/ 4= 3/ 4= 4/ 4= 5/ 4= 6/ 4= 7/ 4= 8/ 4= 1~8/5=	19 (+) 6 (-) 7 4 8 14 9 13 10 18 15 5 16 3 17 2 11 1 12 (GND)

# DISTRIBUTION BOXES(DBRT-SERIES)

## View

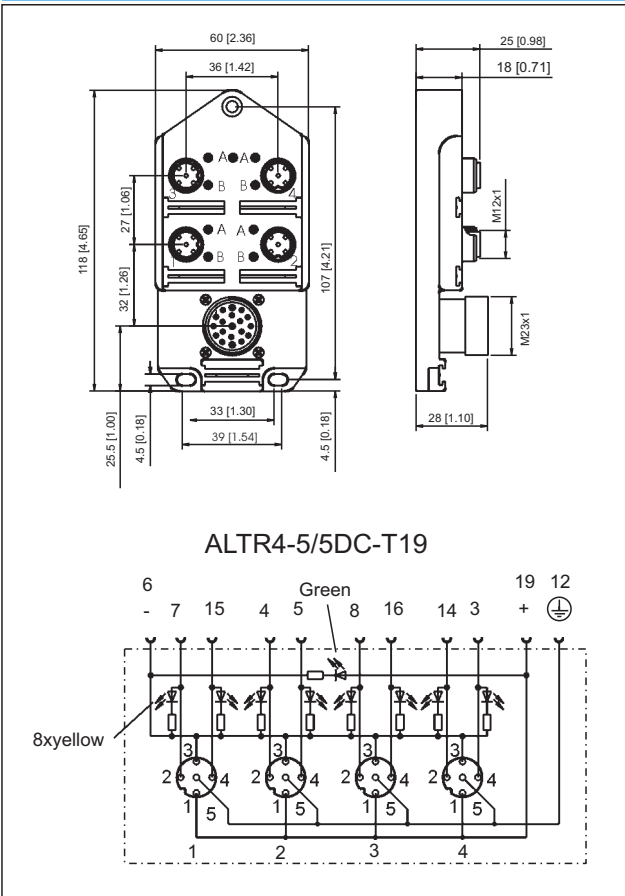


## Dimensional data



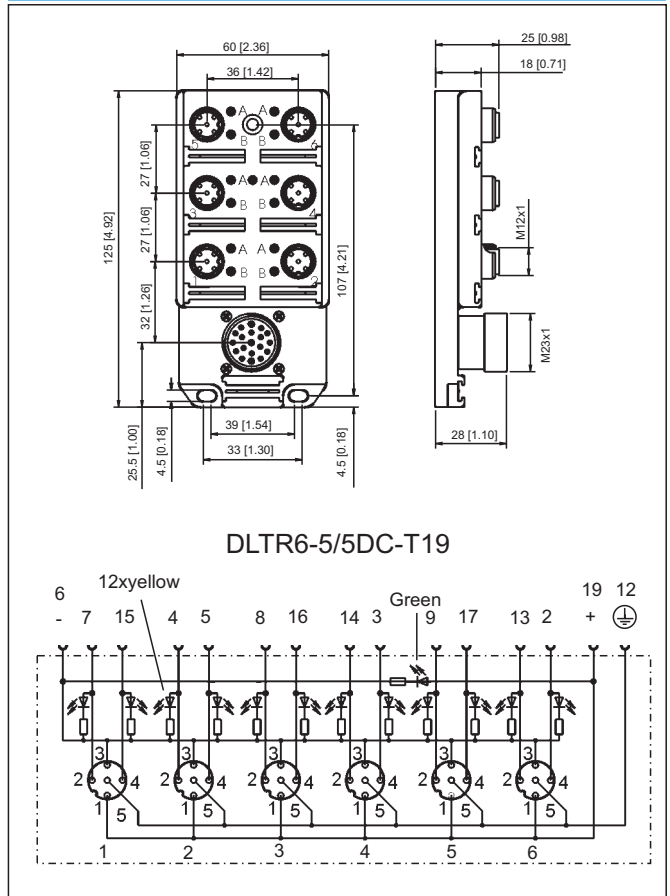
DLTR8-5/5DC-T19

## Dimensional data



ALTR4-5/5DC-T19

## Dimensional data



DLTR6-5/5DC-T19

# DISTRIBUTION BOXES (DBRT-SERIES)

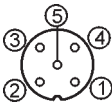
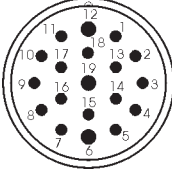

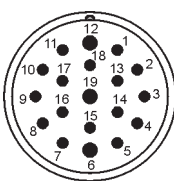

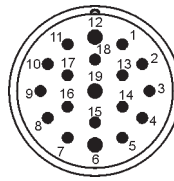
## Description

Distribution Boxes, 4-6-8 port, Quick Disconnect on Top, and poles were placed by counter-clockwise 5 poles 5 wires, earth connection, with two dust covers and ten attachable molds

## Technical Data

<b>1.Application Class:</b>	-15° C to +90° C	<b>4.Mechanical Data:</b>	
<b>2.Materials:</b>		Insertion Force	
Housing :	Nylon 6/6	(Contact):	≤ 2.0N (.45LBS)
Contact:	Brass, gold over nickel plating	Withdrawal Force	
Receptacle Shell:	Brass. Nickel plated	(contact):	≥ 0.5N (.11LBS)
Insert:	PUR(Polyurethane), black	Protection:	IP65(only in fully locked position)
O-Ring:	Viton	Shock:	IEC-68-2-27
		Vibration:	IEC-68-2-6
<b>3.Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5m Ω	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating:	4Amps per outlet 12 Amp max per box		
Working Voltage:	60VAC/75VDC		
Insulation Resistance:	>10 <sup>9</sup> Ω		

## Order Information

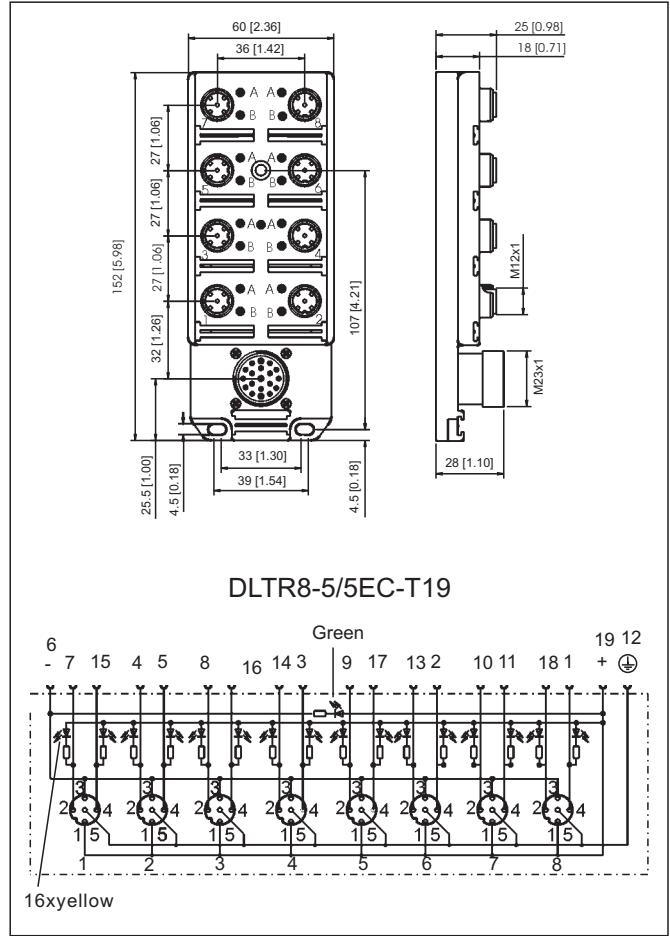
Part Number	Face View Outlets	Poles	Thread	Wiring Diagram	
				Outlet Pins	Connector Pins
ALTR4-5/5DC-T19			M23x1	1~4/1= 19 (+) 1~4/3= 6 (-) 1/ 2= 7 2/ 2= 4 3/ 2= 8 4/ 2= 14 1/ 4= 15 2/ 4= 5 3/ 4= 16 4/ 4= 3 1~4/5= 12 (GND)	
DLTR6-5/5DC-T19			M23x1	1~6/1= 19 (+) 1~6/3= 6 (-) 1/ 2= 7 2/ 2= 4 3/ 2= 8 4/ 2= 14 5/ 2= 9 6/ 2= 13 1/ 4= 15 2/ 4= 5 3/ 4= 16 4/ 4= 3 5/ 4= 17 6/ 4= 2 1~6/5= 12 (GND)	
DLTR8-5/5DC-T19			M23x1	1~8/1= 19 (+) 1~8/3= 6 (-) 1/ 2= 7 2/ 2= 4 3/ 2= 8 4/ 2= 14 5/ 2= 9 6/ 2= 13 7/ 2= 10 8/ 2= 18 1/ 4= 15 2/ 4= 5 3/ 4= 16 4/ 4= 3 5/ 4= 17 6/ 4= 2 7/ 4= 11 8/ 4= 1 1~8/5= 12 (GND)	

# DISTRIBUTION BOXES(DBRT-SERIES)

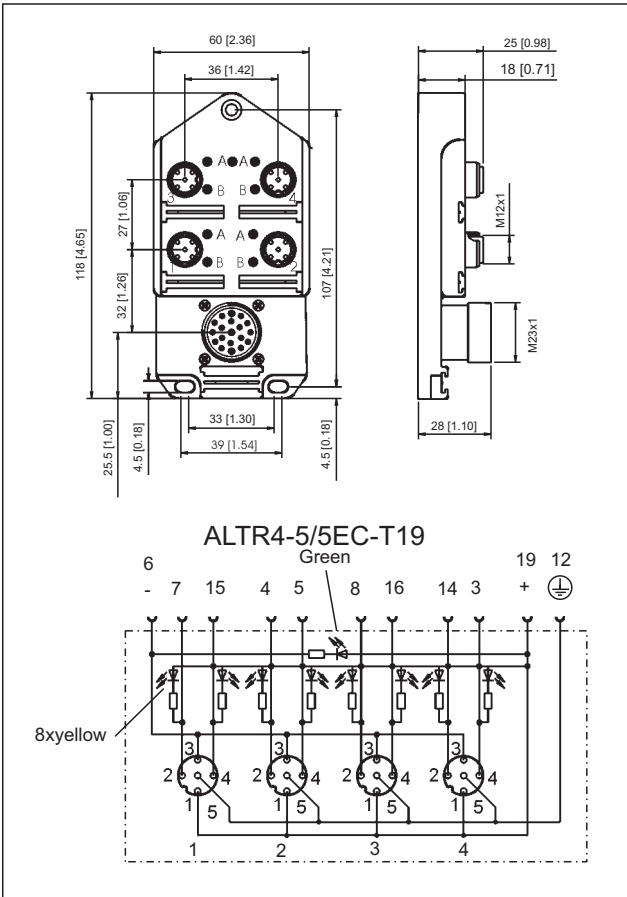
## View



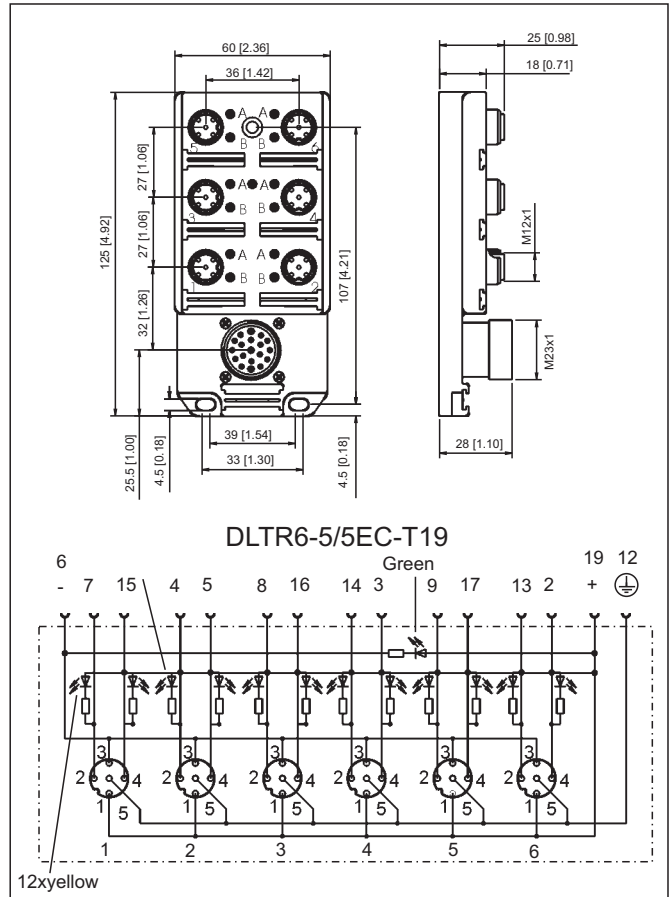
## Dimensional data



## Dimensional data



## Dimensional data



# DISTRIBUTION BOXES (DBRT-SERIES)

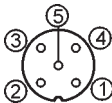
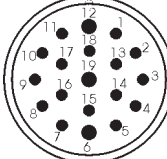

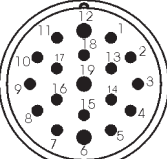

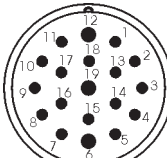
## Description

Distribution Boxes, 4-6-8 port, Quick Disconnect on Top, and poles were placed by counter-clockwise 5 poles 5 wires, earth connection, with two dust covers and ten attachable molds

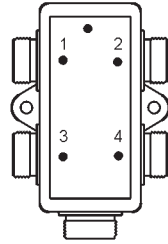
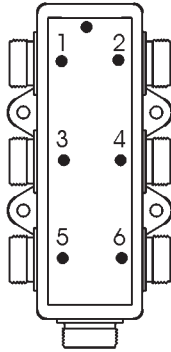
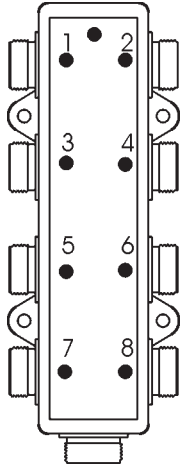
## Technical Data

<b>1.Application Class:</b>	-15° C to +90° C	<b>4.Mechanical Data:</b>	
<b>2.Materials:</b>		Insertion Force	
Housing :	Nylon 6/6	(Contact):	≤ 2.0N (.45LBS)
Contact:	Brass, gold over nickel plating	Withdrawal Force	
Receptacle Shell:	Brass, Nickel plated	(contact):	≥ 0.5N (.11LBS)
Insert:	PUR(Polyurethane), black	Protection:	IP65(only in fully locked position)
O-Ring:	Viton	Shock:	IEC-68-2-27
		Vibration:	IEC-68-2-6
<b>3.Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5m Ω	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating:	4Amps per outlet 12 Amp max per box		
Working Voltage:	60VAC/75VDC		
Insulation Resistance:	>10 <sup>9</sup> Ω		

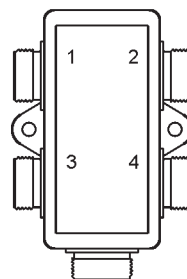
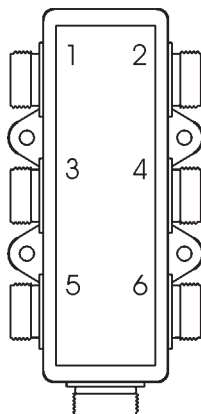
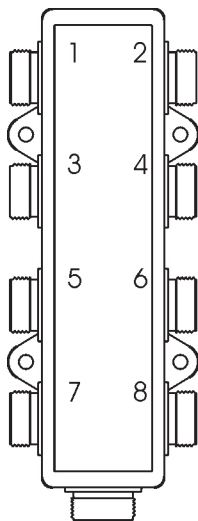
## Order Information

Part Number	Face View Outlets	Poles	Thread	Wiring Diagram	
				Outlet Pins	Connector Pins
ALTR4-5/5EC-T19			M23x1	1~4/1= 1~4/3= 1/2= 2/2= 3/2= 4/2= 1/4= 2/4= 3/4= 4/4= 1~4/5=	19 (+) 6 (-) 7 4 8 14 15 5 16 3 12 (GND)
DLTR6-5/5EC-T19			M23x1	1~6/1= 1~6/3= 1/2= 2/2= 3/2= 4/2= 5/2= 6/2= 1/ 4= 2/ 4= 3/ 4= 4/ 4= 5/ 4= 6/ 4= 1~6/ 5=	19 (+) 6 (-) 7 4 8 14 9 13 15 5 16 3 17 2 12 (GND)
DLTR8-5/5EC-T19			M23x1	1~8/1= 1~8/3= 1/ 2= 2/ 2= 3/ 2= 4/ 2= 5/ 2= 6/ 2= 7/ 2= 8/ 2= 1/ 4= 2/ 4= 3/ 4= 4/ 4= 5/ 4= 6/ 4= 7/ 4= 8/ 4= 1~8/5=	19 (+) 6 (-) 7 4 8 14 9 13 10 18 15 5 16 17 2 11 1 12 (GND)

# DISTRIBUTION BOXES **DBZS SERIES** INDEX



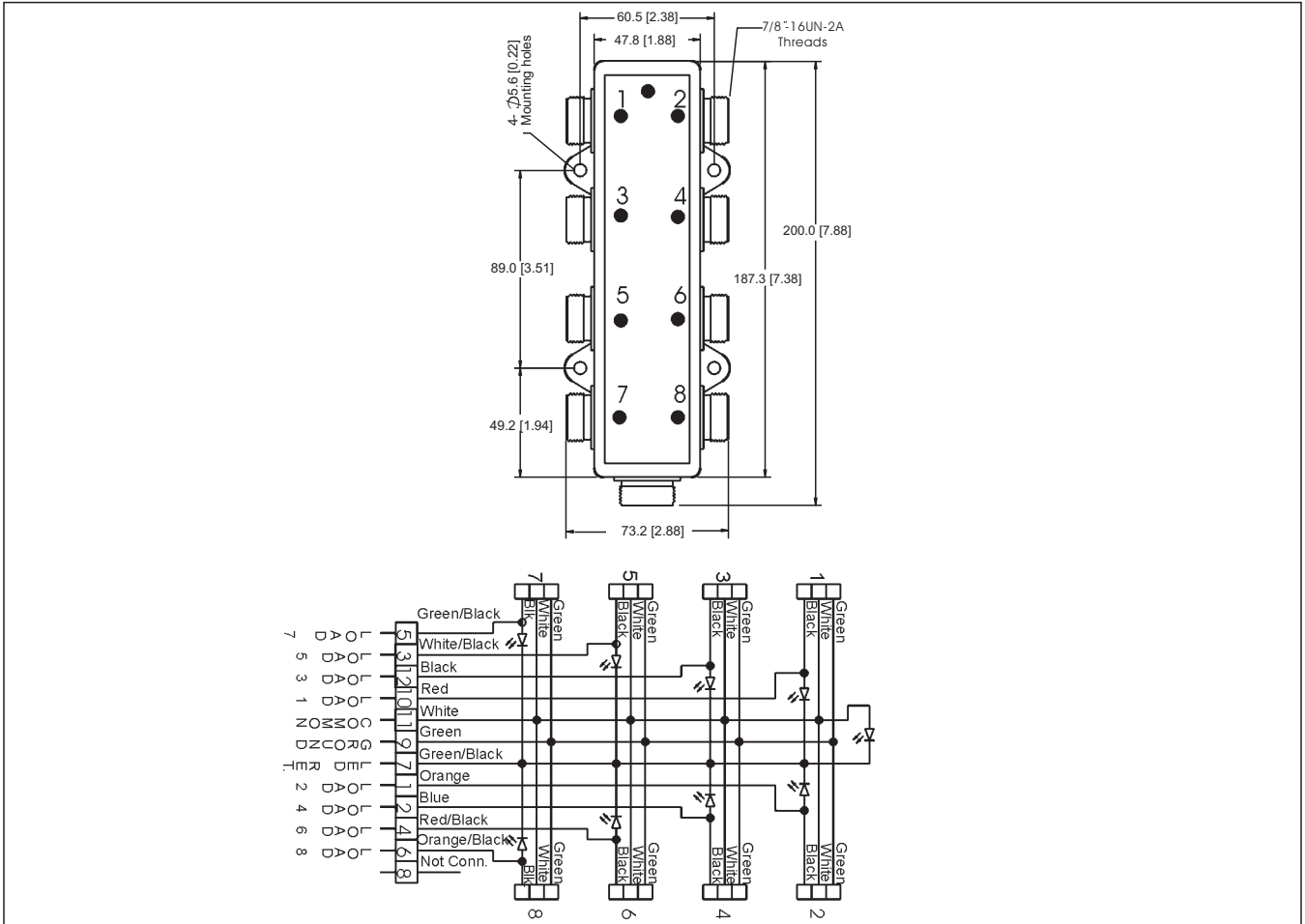
Page H70



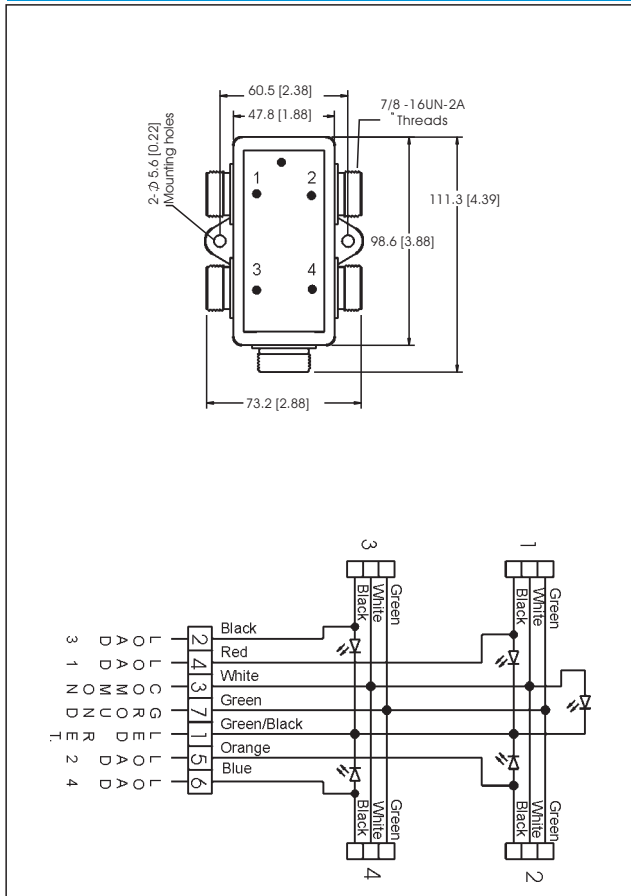
Page H72

# DISTRIBUTION BOXES(DBZS-SERIES)

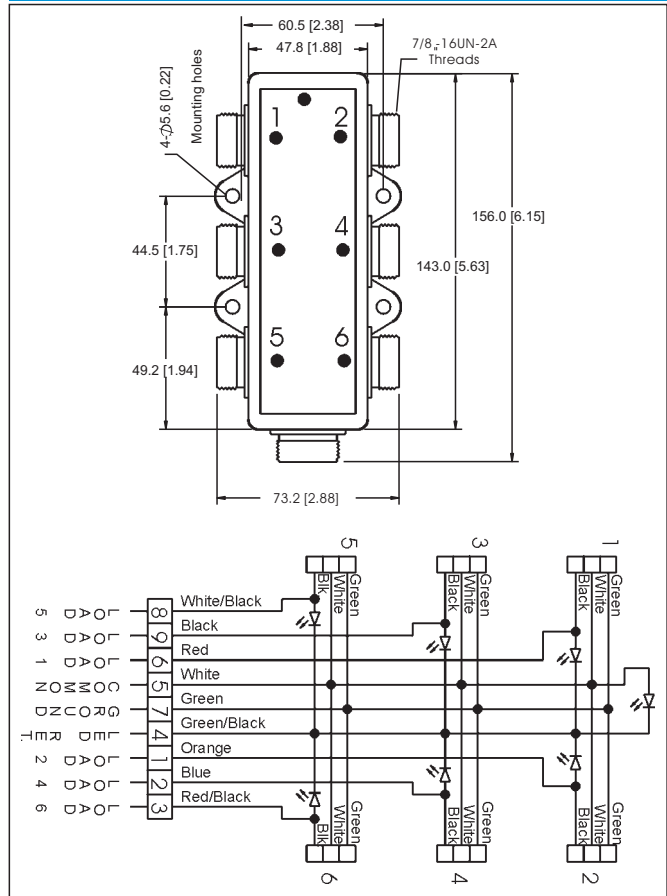
## Dimensional data



## Dimensional data



## Dimensional data



# DISTRIBUTION BOXES (DBZS-SERIES)

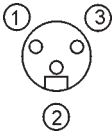
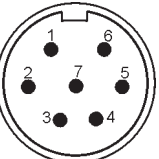
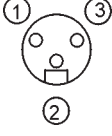
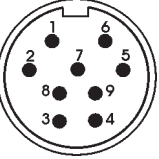
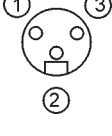
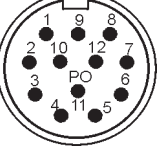
## Description

Distribution Boxes, 4-6-8 port, Quick Disconnect Beside  
5 poles 3 wires, with built-in LED, with two dust covers and ten attachable molds

## Technical Data

<b>1. Application Class:</b>	-15°C to +90°C	<b>4. Mechanical Data:</b>	
<b>2. Materials:</b>		Insertion Force (contact)	≤ 2.0N (.45LBS)
Housing:	Nylon 6/6	Withdrawal Force (contact):	≥ 0.5N (.11LBS)
Contact:	Brass, gold over nickel plating	Protection:	IP68, NEMA 6P (only in fully locked position)
Receptacle Shell:	Anodized aluminum	Shock:	IEC-68-2-27
Insert:	PUR (polyurethane), black	Vibration:	IEC-68-2-6
O-Ring:	Viton		
<b>3. Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5m Ω	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating	4 ports=6A 6.8 ports=7A		
Working Voltage:	120VAC		
Insulation Resistance:	>10 <sup>9</sup> Ω		
Current Limiting Resistor:	3.3K Ω		

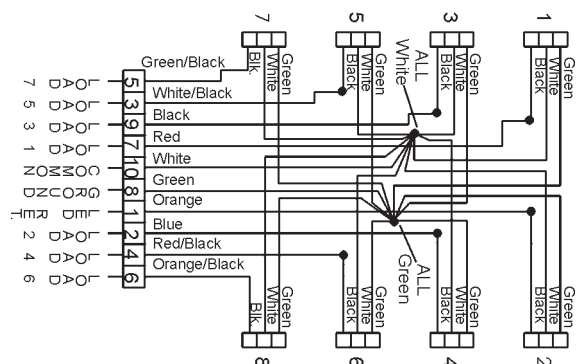
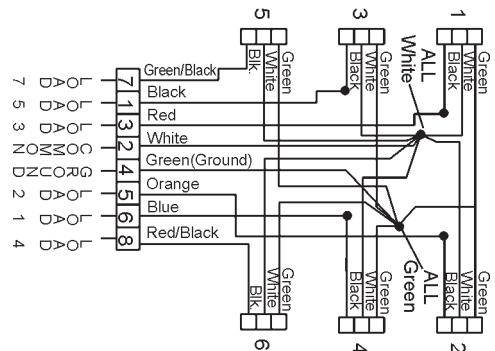
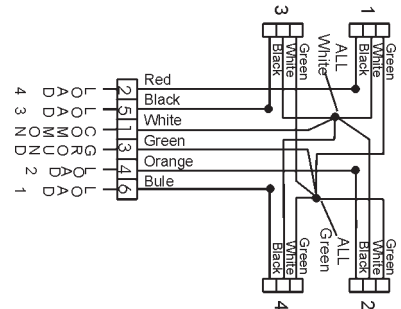
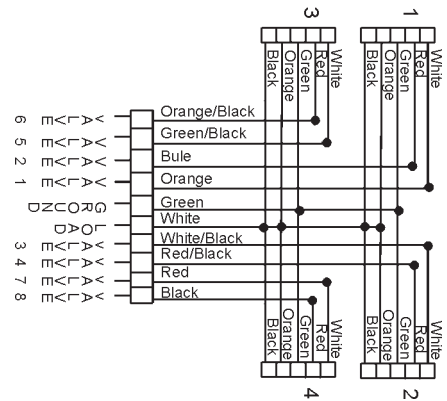
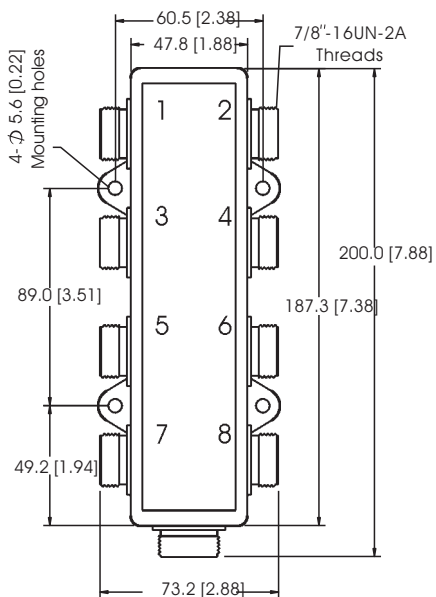
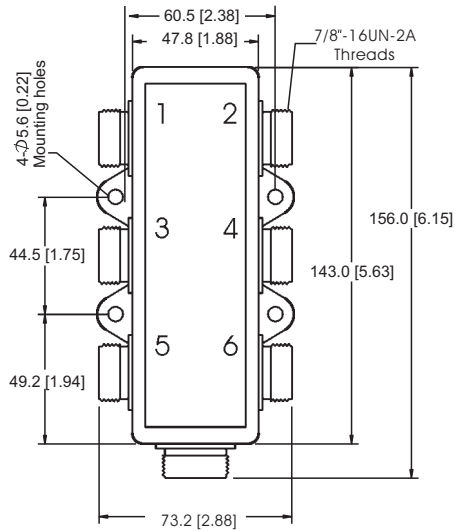
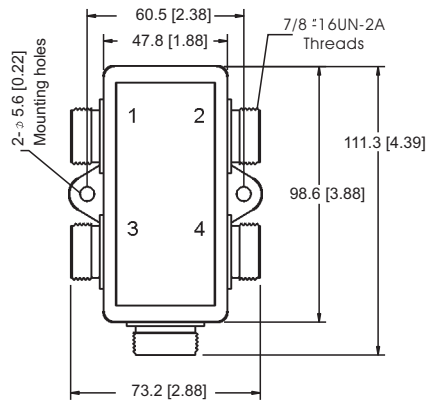
## Order Information

Part Number	Face View of Female Plug	Face View of Male Plug		Wiring Diagram	
		poles	D-UN-2A threads	Outlet	On Board Connector
DSSZ4-3/3AA-F7		7	 1"-16	GND: 7=Green COMMON: 3=White LED: 1=Green/Black	Load: 2=Black 4=Red 5=Orange 6=Blue
DSSZ6-3/3AA-F9		9	 11/8"-16	GND: 7=Green COMMON: 5=White LED: 4=Green/Black	Load: 1=Orange 2=Blue 3=Red/black 6=Red 8=White/black 9=Black
DSSZ8-3/3AA-F12		12	 11/8"-16	GND: 9=Green COMMON: 11=White LED: 7=Green/Black	Load: 1=Orange 2=Blue 3=White/black 4=Red/black 5=Green/black 6=Orange/black 10=Red 12=Black



# DISTRIBUTION BOXES(DBZS-SERIES)

## Dimensional data



# DISTRIBUTION BOXES (DBZS-SERIES)

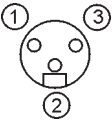
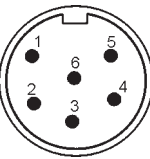
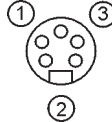
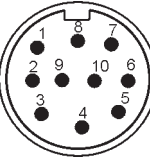
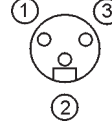
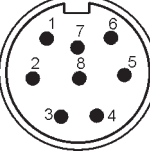
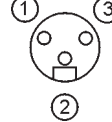
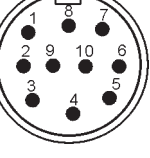
## Description

Distribution Boxes, 4-6-8 port, Quick Disconnect Beside  
5 poles 3 wires, with built-in LED, with two dust covers and ten attachable molds

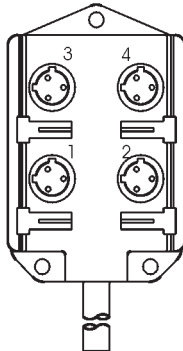
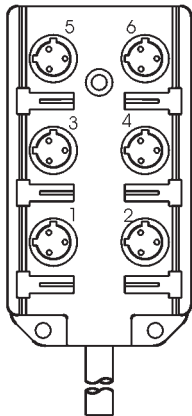
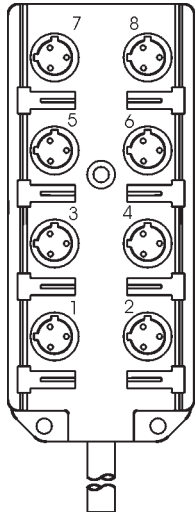
## Technical Data

<p><b>1. Application Class:</b> -15°C to +90°C</p> <p><b>2. Materials:</b>                  Housing: Nylon 6/6                  Contact: Brass, gold over nickel plating                  Receptacle Shell: Anodized aluminum                  Insert: PUR(Polyurethane), black                  O-Ring: Viton</p> <p><b>3. Electrical Data:</b>                  Contact Resistance: <math>\leq 5m\Omega</math>                  Current Rating: 4 ports=6A                  6.8ports=7A                   Working Voltage: 120VAC                  Insulation Resistance: <math>&gt;10^9\Omega</math>                  Current Limiting Resistor: 3.3K<math>\Omega</math></p>	<p><b>4. Mechanical Data:</b>                  Insertion Force (contact) <math>\leq 2.0N</math> (.45LBS)                  Withdrawal Force (contact) <math>\geq 0.5N</math> (.11LBS)                  Protection: IP68, NEMA 6P (only in fully locked position)                  Shock: IEC-68-2-27                  Vibration: IEC-68-2-6</p> <p><b>5. CE Conformity with Standards:</b>                  EN50082-1, EN50082-2 and IEC60947-5-2</p>
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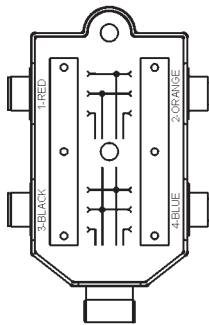
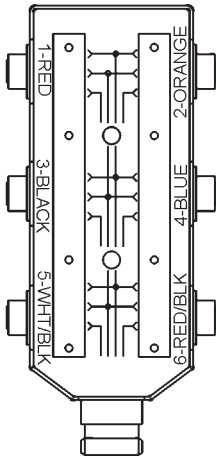
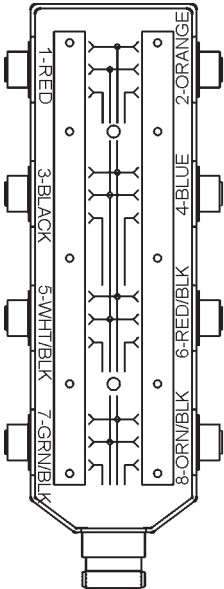
## Order Information

Part Number	Face View of Female Plug	Face View of Male Plug		Wiring Diagram	
		poles	D-UN-2A threads	Outlet	On Board Connector
DSSZ4-3/3AZ-F6		6	 7/8"-16	GND: 3=Green COMMON: 1=White	Load: 2=Red 4=Orange 5=Black 6=Blue
DSSZ4-5/5AZ-F10		10	 11/8"-16	GND: 8=Green COMMON: 10=White	Load: Valve 6 Valve 5 Valve 2 Valve 1 Valve 3 Valve 4 Valve 7 Valve 8
DSSZ6-3/3AZ-F8		8	 1"-16	GND: 4=Green COMMON: 2=White	Load: 1=Black 3=Red 5=Orange 6=Blue 7=White/Black 8=Red/Black
DSSZ8-3/3AZ-F10		10	 11/8"-16	GND: 8=Green COMMON: 10=White	Load: 1=Orange 2=Blue 3=White/Black 4=Red/Black 5=Green/Black 6=Orange/Black 7=Red 9=Black

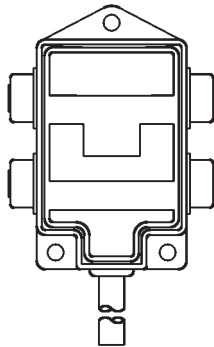
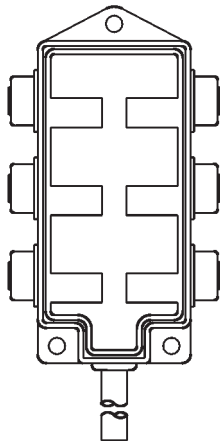
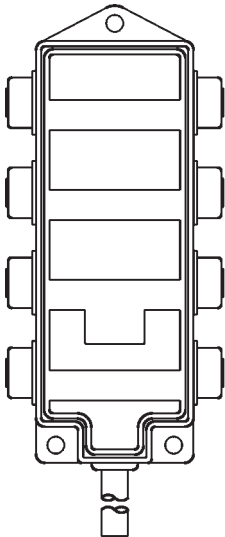
DISTRIBUTION BOXES **DBU SERIES/DBUS SERIES** INDEX



Page H84



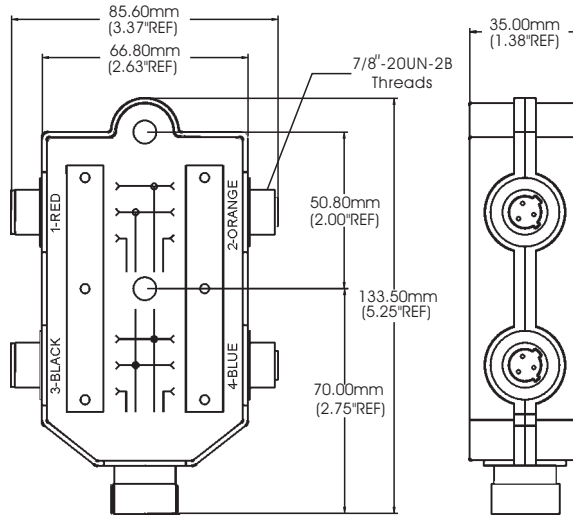
Page H76/page H78  
page H80



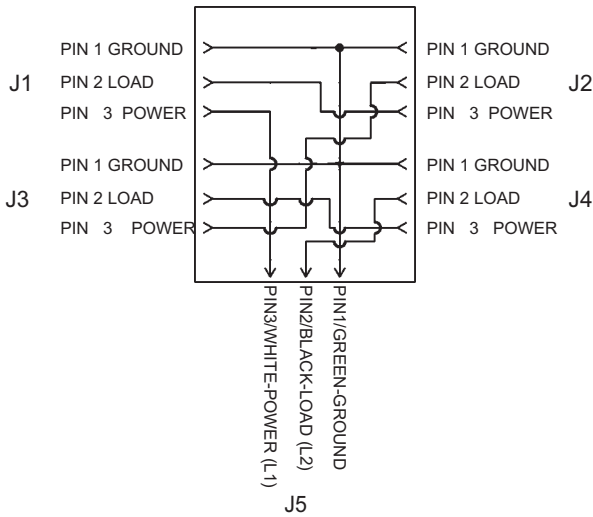
Page H82

# DISTRIBUTION BOXES(DBUS-SERIES)

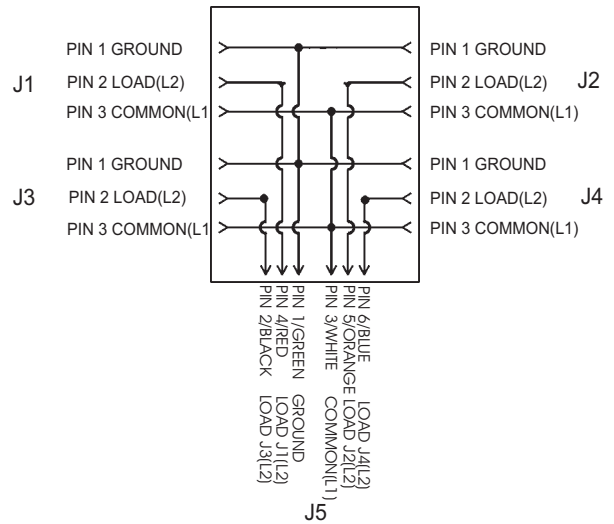
## Dimensional data



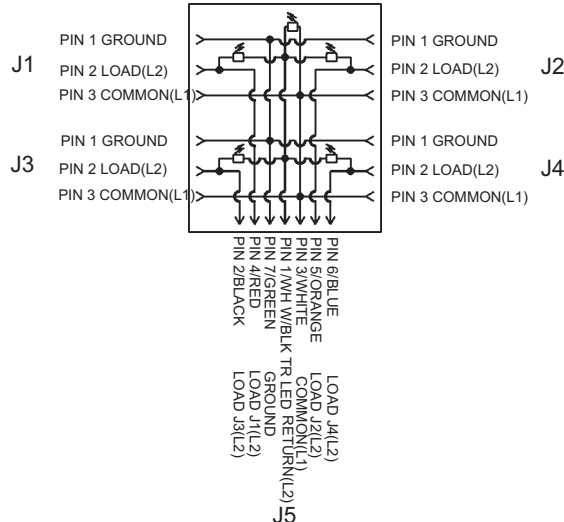
### Schematic-Series



### Schematic-Parallel



### Schematic-LED



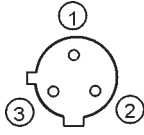
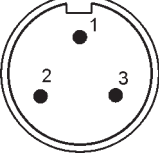
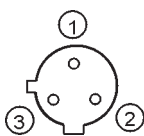
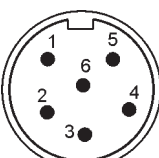
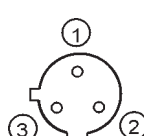
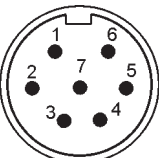
# DISTRIBUTION BOXES (DBUS-SERIES)

## Description

Distribution Boxes,4-6-8 port, Quick Disconnect Beside  
3 poles 3 wires,AC Dual Key,with two dust covers and ten attachable molds

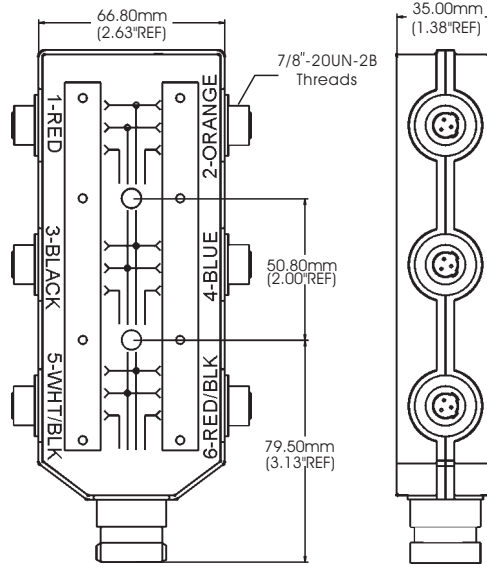
## Technical Data

<b>1.Application Class:</b>	-15°C to +90°C	<b>4.Mechanical Data:</b>	
<b>2.Materials:</b>		Insertion Force (contact):	≤ 2.0N (.45LBS)
Housing:	Nylon 6/6	Withdrawal Force (contact):	≥ 0.5N (.11LBS)
Contact:	Brass,gold over nickel plating	Protection:	IP68,NEMA 6P(only in fully locked position)
Receptacle Shell:	Brass,nickel plated	Shock:	IEC-68-2-27
Insert:	PUR(Polyurethane),black	Vibration:	IEC-68-2-6
O-Ring:	Viton		
<b>3.Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5m Ω	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating	4 Ports=6A		
Working Voltage:	250VAC		
Insulation Resistance:	>10 <sup>9</sup> Ω		

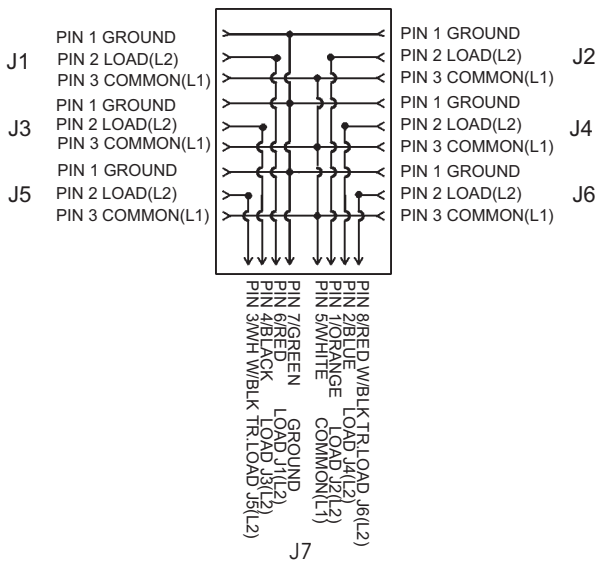
Part Number	Face View of Female Plug	Face View of Male Plug		Wiring Diagram	
		poles	D-UN-2A threads	Outlet	On Board Connector
ASSU4-3/3AZ-F3	3 	3	 7/8"-16	GND: PIN 1=Green Power: PIN 3=White Load: PIN 2=Black	
ASSU4-3/3AZ-F6	3 	6	 7/8"-16	GND: PIN 1=Green COMMON: PIN 3=White	Load: PIN 2=Black PIN 4= Red PIN 5=Orange PIN 6=Blue
ASSU4-3/3AA-F7	3 	7	 1"-16	GND: PIN 7=Green COMMON: PIN 3=White LED: PIN 1=WH W/BLK TR	Load: PIN 2=Black PIN 4= Red PIN 5=Orange PIN 6=Blue

# DISTRIBUTION BOXES(DBUS-SERIES)

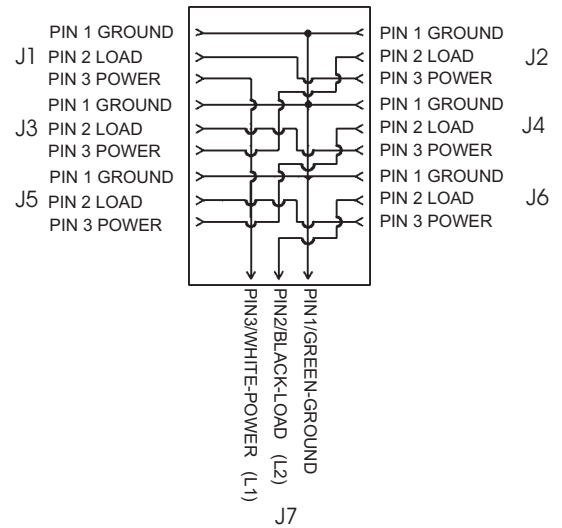
## Dimensional data



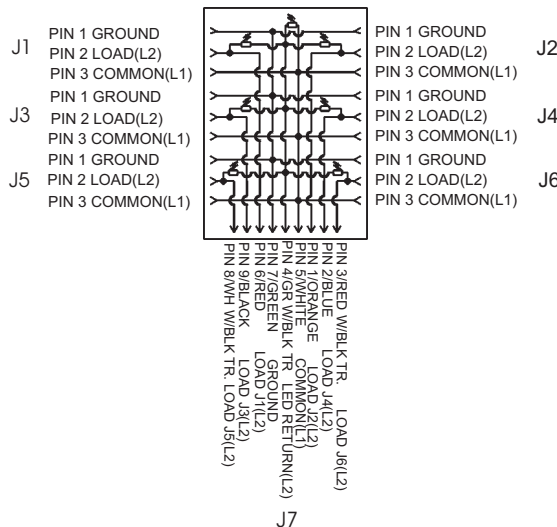
### Schematic-Parallel



### Schematic-Series



### Schematic-LED



# DISTRIBUTION BOXES (DBUS-SERIES)

## Description

Distribution Boxes,4-6-8 port, Quick Disconnect Beside  
3 poles 3 wires,AC Dual Key,with two dust covers and ten attachable molds

## Technical Data

1.Application Class: -15°C to +90°C

### 2.Materials:

Housing: Nylon 6/6  
Contact: Brass,gold over nickel plating  
Receptacle Shell: Brass,nickel plated  
Insert: PUR(Polyurethane),black  
O-Ring: Viton

### 3.Electrical Data:

Contact Resistance:  $\leq 5m \Omega$   
Current Rating 6 ports=7A

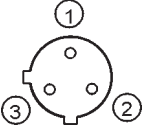
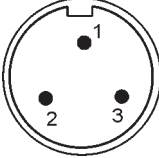
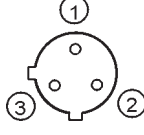
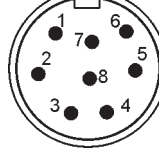
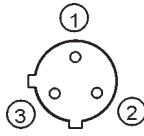
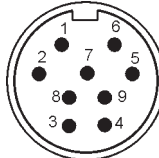
Working Voltage: 250VAC  
Insulation Resistance:  $>10^9 \Omega$

### 4.Mechanical Data:

Insertion Force (contact):  $\leq 2.0N (.45LBS)$   
Withdrawal Force (contact):  $\geq 0.5N (.11LBS)$   
Protection: IP68,NEMA 6P(only in fully locked position)  
Shock: IEC-68-2-27  
Vibration: IEC-68-2-6

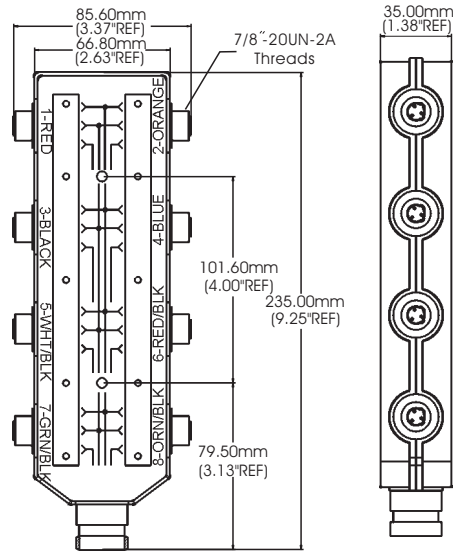
### 5. CE Conformity with Standards:

EN50082-1, EN50082-2 and IEC60947-5-2

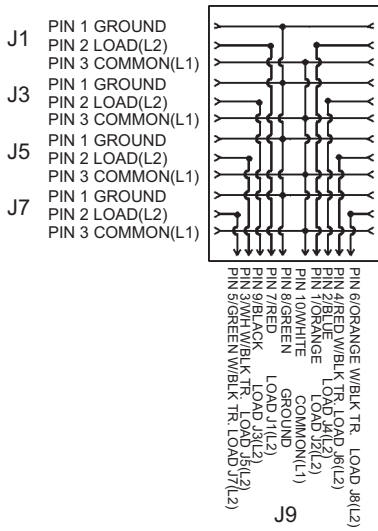
Part Number	Face View of Female Plug	Face View of Male Plug		Wiring Diagram	
		poles	D-UN-2A threads	Outlet	On Board Connector
ASSU6-3/3AZ-F3	3 	3	 7/8"-16	GND: PIN 1=Green Power: PIN 3=White Load: PIN 2=Black	
ASSU6-3/3AZ-F8	3 	8	 1"-16	GND: PIN 7=Green COMMON: PIN 5=White Load: PIN 6=Red PIN 1=Orange PIN 4=Black PIN 2=Blue PIN 8=Red/black TR PIN 3=Red w/black TR	
ASSU6-3/3AA-F9	3 	9	 11/8"-16	GND: PIN 7=Green COMMON: PIN 5=White GND: PIN 4=Green W/BLK TR Load: PIN 6=Red PIN 1=Orange PIN 9=Black PIN 2=Blue PIN 8=White w/black TR PIN 3=Red w/black TR	

# DISTRIBUTION BOXES(DBUS-SERIES)

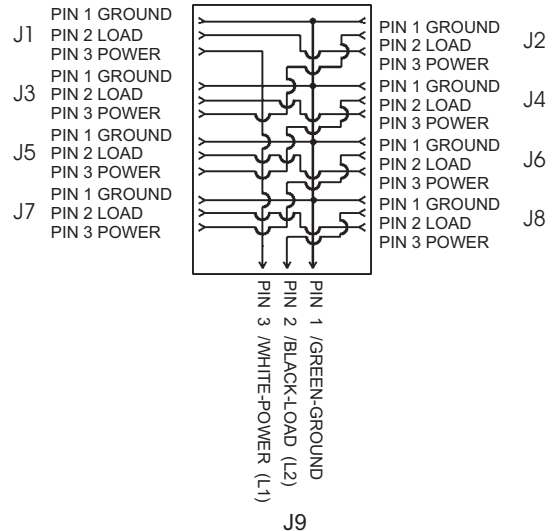
## Dimensional data



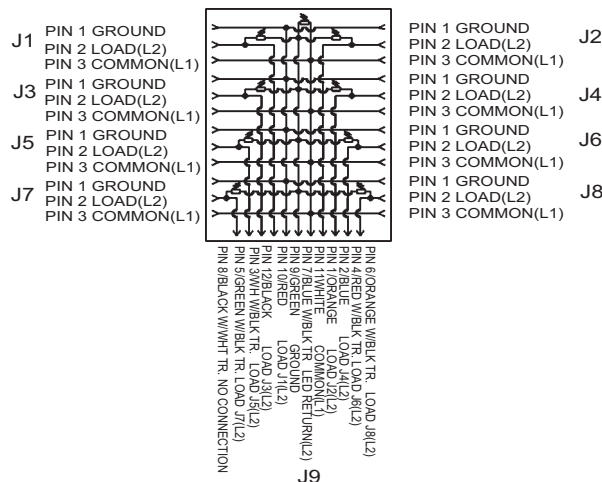
### Schematic-Parallel



### Schematic-Series



### Schematic-LED





# DISTRIBUTION BOXES (DBUS-SERIES)

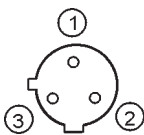
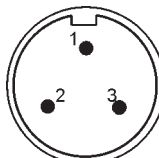
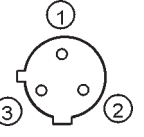
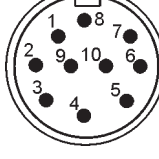
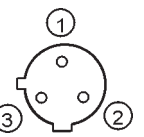
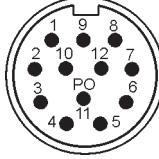
## Description

Distribution Boxes,4-6-8 port, Quick Disconnect Beside  
3 poles 3 wires,AC Dual Key,with two dust covers and ten attachable molds

## Technical Data

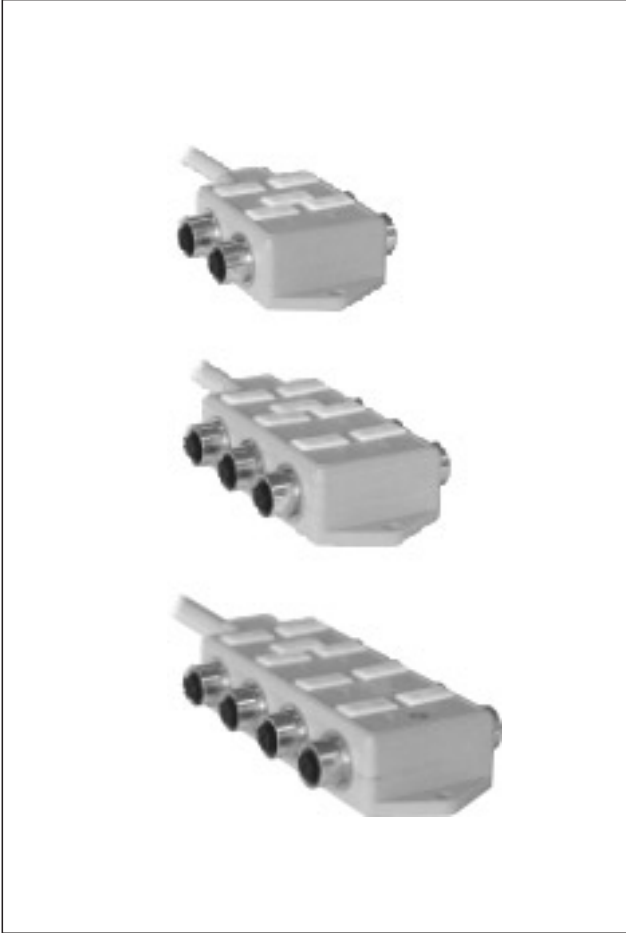
<b>1.Application Class:</b>	-15°C to +90°C	<b>4.Mechanical Data:</b>	
<b>2.Materials:</b>		Insertion Force	
Housing:	Nylon 6/6	(contact):	≤ 2.0N (.45LBS)
Contact:	Brass,gold over nickel plating	Withdrawal Force	
Receptacle Shell:	Brass,nickel plated	(contact):	>0.5N (.11LBS)
Insert:	PUR(Polyurethane),black	Protection:	IP68,NEMA 6P(only in fully locked position)
O-Ring:	Viton	Shock:	IEC-68-2-27
<b>3.Electrical Data:</b>		Vibration:	IEC-68-2-6
Contact Resistance:	≤ 5m Ω	<b>5. CE Conformity with Standards:</b>	
Current Rating	8 ports=7A	EN50082-1, EN50082-2 and IEC60947-5-2	
Working Voltage:	250VAC		
Insulation Resistance:	>10 <sup>9</sup> Ω		

## Order Information

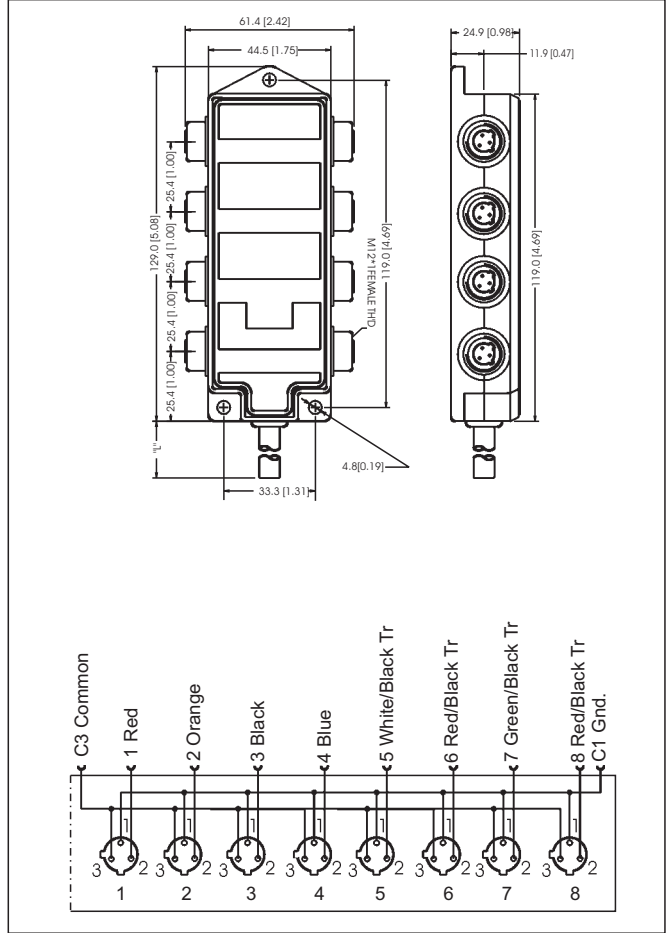
Part Number	Face View of Female Plug	Face View of Male Plug		Wiring Diagram	
		poles	D-UN-2A threads	Outlet	On Board Connector
ASSU8-3/3AZ-F3	3 	3	 7/8"-16	GND: PIN 1=Green Power: PIN 3=White Load: PIN 2=Black	
ASSU8-3/3AZ-F10	3 	10	 11/8"-16	GND: PIN 9=Green COMMON: PIN 10=White Load: PIN 1=Orange PIN 2=Blue PIN 3=White/Black Tr PIN 4=Red/Black PIN 5=Green/Black Tr PIN 6=Orange/Black Tr PIN 7=Red PIN 9=Black	
ASSU8-3/3AA-F12	3 	12	 11/8"-16	GND: PIN 9=Green COMMON: PIN 11=White LED: PIN 7=Blue w/blk Load: PIN 10=Red PIN 1=Orange PIN 12= Black PIN 2=Blue PIN 3=White/Black Tr PIN 4=Red/Black Tr PIN 6=Orange/Black Tr PIN 5=Green/Black Tr	

# DISTRIBUTION BOXES(DBUS-SERIES)

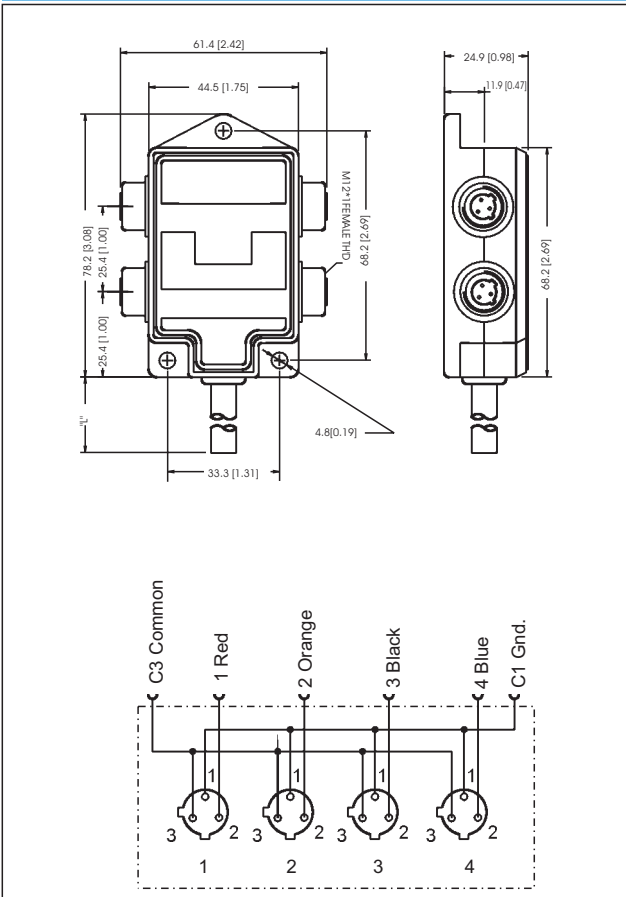
## View



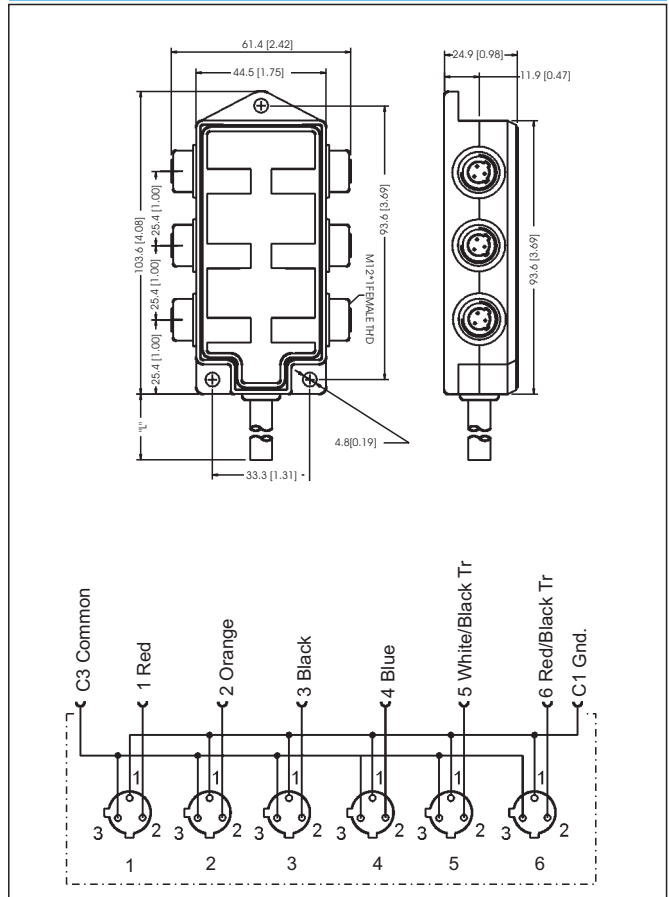
## Dimensional data



## Dimensional data



## Dimensional data



# DISTRIBUTION BOXES (DBU-SERIES)

## Description

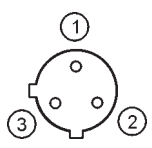
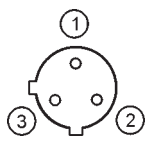
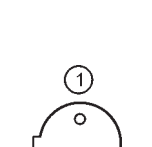
Distribution Boxes,4-6-8 port-Cable Version

3 poles 3 wires,AC Dual Key,with two dust covers and ten attachable molds

## Technical Data

<b>1.Application Class:</b>	-15°C to +90°C	<b>4.Mechanical Data:</b>	
<b>2.Materials:</b>		Insertion Force	
Housing	Nylon 6/6	(contact):	≤ 2.0N (0.45LBS)
Contact:	Brass,gold over nickel plating	Withdrawal Force	
Receptacle Shell:	Brass,nickel plated	(contact):	≥ 0.5N(0.11LBS)
Insert:	PUR(Polyurethane),black	Protection:	IP68,NEMA 6P(only in fully locked position)
O-Ring:	Viton	Shock:	IEC-68-2-27
<b>3.Electrical Data:</b>		Vibration:	IEC-68-2-6
Contact Resistance:	≤ 5mΩ	<b>5. CE Conformity with Standards:</b>	
Current Rating	4Amps per outlet 12 Amp max per box		EN50082-1, EN50082-2 and IEC60947-5-2
Working Voltage:	250VAC		
Insulation Resistance:	>10 <sup>9</sup> Ω		

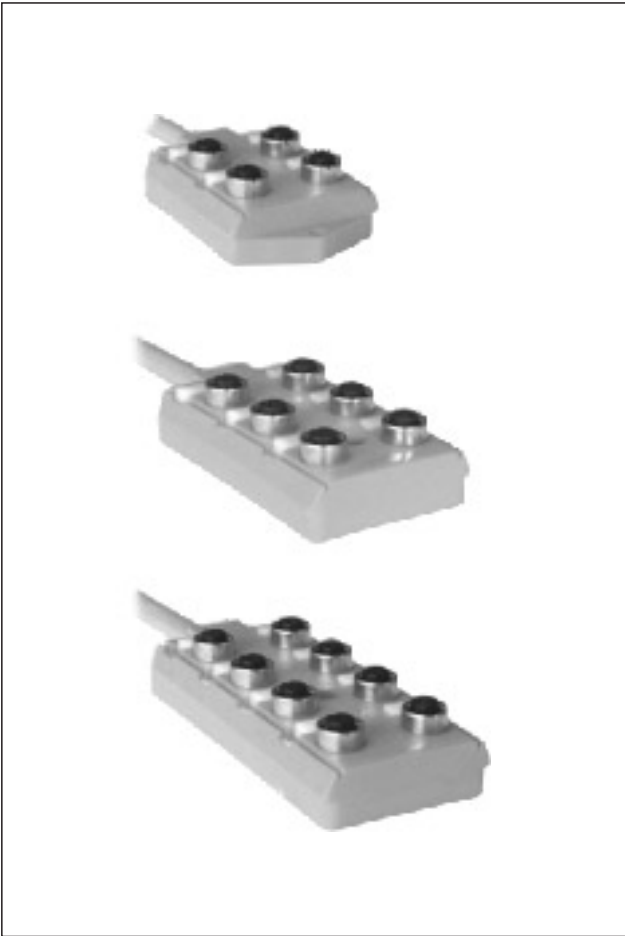
## Order Information

Part Number	Poles	Color Code	Cable Type		
			Lead(mm <sup>2</sup> )	Outer Jacket	
ASSU4-3/3AZ-23XX	3	 <p>C1= (GND) C3= (Common) 2= Red (1) Orange (2) Black (3) Blue (4)</p>	2x0.75(96xφ0.10)  4x0.34(42xφ0.10)	φ 8.4	PUR/PVC
ASSU6-3/3AZ-24XX	3	 <p>C1= (GND) C3= (Common) 2= Red (1) Orange (2) Black (3) Blue (4) White/black Tr. (5) Red/black Tr. (6)</p>	2x0.75(96xφ0.10)  6x0.34(42xφ0.10)	φ 9.0	PUR/PVC
ASSU8-3/3AZ-25XX	3	 <p>C1= (GND) C3= (Common) 2= Red (1) Orange (2) Black (3) Blue (4) White/black Tr. (5) Red/black Tr. (6) Green/black Tr. (7) Orange/blace Tr. (8)</p>	2x0.75(96xφ0.10)  8x0.34(42xφ0.10)	φ 9.0	PUR/PVC

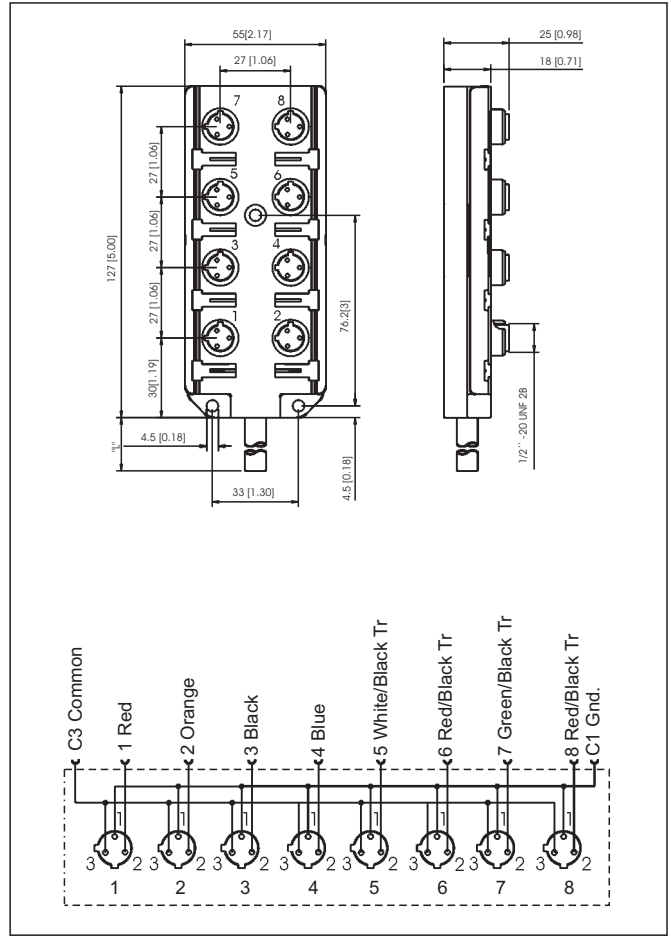
xx - Standard length :5.0m(05) and 10.0m(10). Other cable length or cable specifications on request

# DISTRIBUTION BOXES(DBU-SERIES)

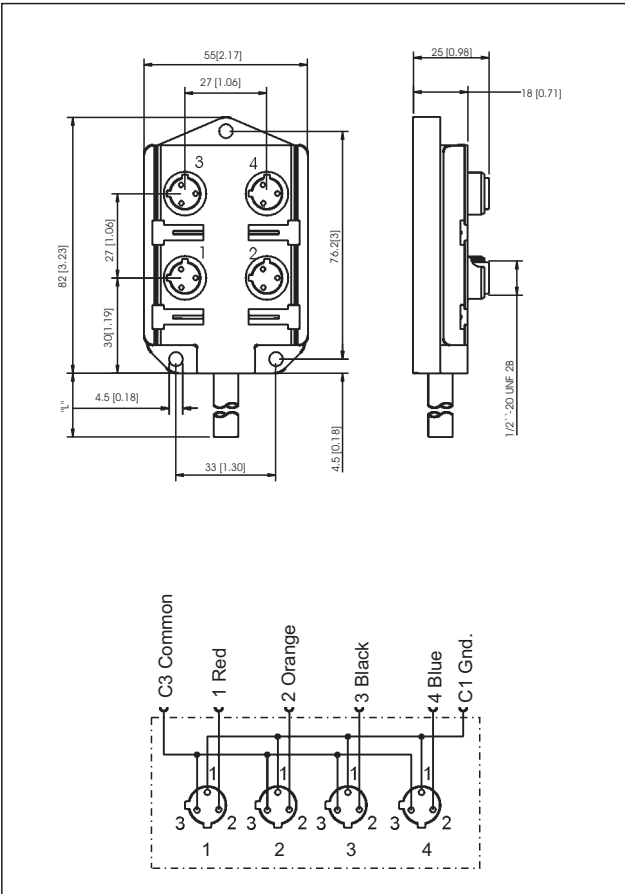
## View



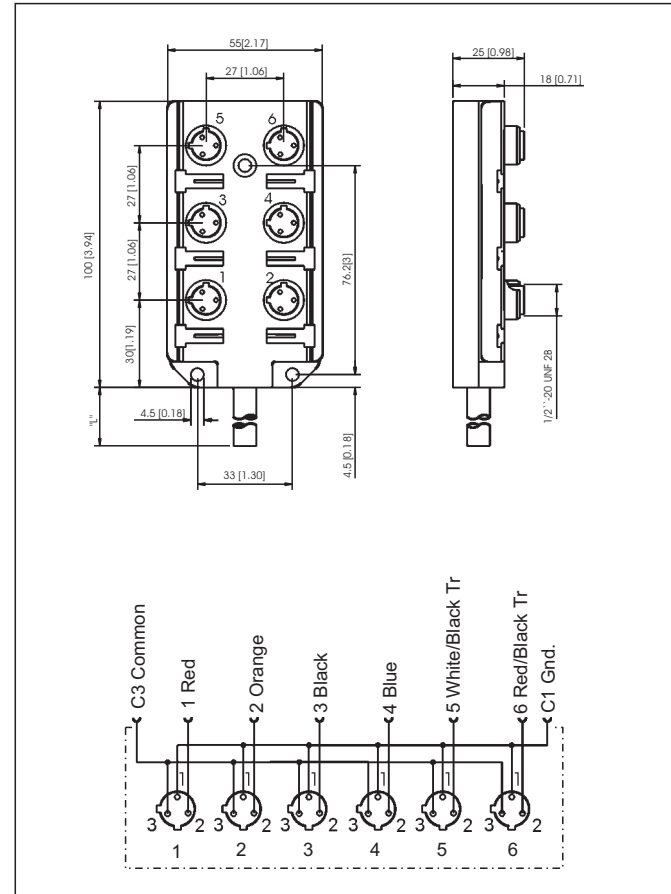
## Dimensional data



## Dimensional data



## Dimensional data



# DISTRIBUTION BOXES (DBU-SERIES)

## Description

Distribution Boxes,4-6-8 port-Cable Version

3 poles 3 wires,AC Dual Key,with two dust covers and ten attachable molds

## Technical Data

1.Application Class: -15°C to +90°C

### 2.Materials:

Housing: Nylon 6/6  
 Contact: Brass,gold over nickel plating  
 Receptacle Shell: Brass,nickel plated  
 Insert: PUR(Polyurethane),black  
 O-Ring: Viton

### 3.Electrical Data:

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 4Amps per outlet  
 12 Amp max per box  
 Working Voltage: 250VAC  
 Insulation Resistance:  $>10^9\Omega$

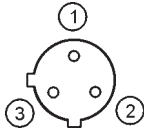
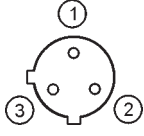
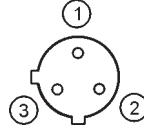
### 4.Mechanical Data:

Insertion Force (contact):  $\leq 2.0N$  (0.45LBS)  
 Withdrawal Force (contact):  $\geq 0.5N$ (0.11LBS)  
 Protection: IP68,NEMA 6P(only in fully locked position)  
 Shock: IEC-68-2-27  
 Vibration: IEC-68-2-6

### 5. CE Conformity with Standards:

EN50082-1, EN50082-2 and IEC60947-5-2

## Order Information

Part Number	Poles	Color Code	Cable Type		
			Lead(mm <sup>2</sup> )	Outer Jacket	
ASTU4-3/3AZ-23XX	3	 <p>C1= (GND)                      C3= (Common)                      2= Red (1)                      Orange (2)                      Black (3)                      Blue (4)</p>	2x0.75(96xΦ0.10)  4x0.34(42xΦ0.10)	Φ 8.4	PUR/PVC
DSTU6-3/3AZ-24XX	3	 <p>C1= (GND)                      C3= (Common)                      2= Red (1)                      Orange (2)                      Black (3)                      Blue (4)                      White/black Tr. (5)                      Red/black Tr. (6)</p>	2x0.75(96xΦ0.10)  6x0.34(42xΦ0.10)	Φ 9.0	PUR/PVC
DSTU8-3/3AZ-25XX	3	 <p>C1= (GND)                      C3= (Common)                      2= Red (1)                      Orange (2)                      Black (3)                      Blue (4)                      White/black Tr. (5)                      Red/black Tr. (6)                      Green/black Tr. (7)                      Orange/blace Tr. (8)</p>	2x0.75(96xΦ0.10)  8x0.34(42xΦ0.10)	Φ 9.0	PUR/PVC

xx - Standard length :5.0m(05) and 10.0m(10). Other cable length or cable specifications on request

# HARD-SHELL CONNECTOR

---

## HARD-SHELL CONNECTOR

H FS - 12P - 38 05  
1      2                      3                      4      5

- 1 TYPE  
H = Hard Shell Connectors
- 2 CONNECTOR SHAPE  
MS = Straight Male Hard-shell Connectors  
MA = Right Angle Male Hard-shell Connectors  
FS = Straight Female Hard-shell Connectors  
FA = Right Angle Female Hard-shell Connectors
- 3 NUMBER OF POLES PER PORT  
12P = 12 Poles Connector  
19P = 19 Poles Connector
- 4 OUTPUT CONNFCTION



# DISTRIBUTION BOXES (HARD-SHELL CONNECTORS)

**Description**

Hard shell Connectors for Use with  
Distribution Boxes-On board connector

REQUIRES SPANNER FOR ASSEMBLY

Technical Data			
1.Application Class:	-25°C to +110°C	Current Rating:	7.5Amps
2.Materials:		Working Voltage:	60VAC/75VDC
Body:	CuZn,brass,nickeled	Dielectric Withstanding Voltage:	1.5 KVAC eff./60sec
Contact:	CuZn,pre-nickeled and gold plated	Insulation Resistance:	>10 <sup>9</sup> Ω
Coupling Nut:	CuZn,brass,nickeled	4.Mechanical Data:	
Insert:	PBTP,GF	Insertion Force (contact):	≤ 2.0N (.45LBS)
O-Ring:	Viton	Withdrawal Force (contact):	≥ 0.5N (.11LBS)
3.Electrical Data:		Protection:	IP65
Contact Resistance:	≤ 5mΩ	Mode of Termination:	Solder types

Part Number	Face View of Female Plug	Color Code	Cable Type	
			Lead(mm <sup>2</sup> )	Outer Jacket
HFS-12P-14xx		1= Orange    10= Red 2= Blue      11= White 3= White/blk Tr. 12= Black(GND) 4= Red/blk Tr. 5= Green/blk Tr. 6= Orange/blk Tr. 7= Blue/blk Tr. 8= Black/white Tr. 9= Green	12x0.34(128xΦ0.10)	Φ12.8    PVC
HFA-12P-14xx			12x0.34(128xΦ0.10)	Φ12.8    PUR
HFS-12P-39xx				
HFA-12P-39xx				
HFS-12P-Q		Connector Only		
HFA-12P-Q				

xx-Standard cable available in 5-meter(05),and 10-meter. Other cable length or cable specifications on request.

# HARD-SHELL CONNECTORS

**Description**  
 Hardshell Connectors for Use with Distribution Boxes-On board connector

REQUIRES SPANNER FOR ASSEMBLY

Technical Data			
<b>1.Application Class:</b>	-25°C to +110°C	<b>Current Rating</b>	7.5Amps
		<b>Working Voltage:</b>	60VAC/75VDC
<b>2.Materials:</b>		<b>Dielectric Withstanding Voltage:</b>	1.5 KVAC eff./60sec
Body:	CuZn,brass,nickeled	<b>Insulation Resistance:</b>	>10 <sup>9</sup> Ω
Contact:	CuZn,pre-nickeled and gold plated	<b>4.Mechanical Data:</b>	
Coupling Nut:	CuZn,brass,nickeled	Insertion Force (contact):	≦ 2.0N (.45LBS)
Insert:	PBTP,GF	Withdrawal Force (contact):	≧ 0.5N (.11LBS)
O-Ring:	Viton	Protection:	IP65
<b>3.Electrical Data:</b>		Mode of Termination:	Solder types
Contact Resistance:	≦ 5mΩ		

Part Number	Face View of Female Plug	Color Code	Cable Type			
			Lead(mm <sup>2</sup> )	Outer Jacket		
HFS-19P-38xx		1= Violet 2= Red 3= Grey 4= Red/blue 5= Green 6= Blue 7= Grey/pink 8= White/green 9= White/yellow 10= white/gray	11= Black 12= Yellow/green 13= Yellow/brown 14= Brown/green 15= White 16= Yellow 17= Pink 18= Gray/Brown 19= Brown	3x1.0(128x φ 0.10) 16x0.5(64x φ 0.10)	φ 11.6	PUR
HFA-19P-38xx		3x1.0(128x φ 0.10) 16x0.5(64x φ 0.10)	φ 11.6	PUR		
HFS-19P-Q		Connector Only				
HFA-19P-Q						

xx-Standard cable available in 5-meter(05),and 10-meter. Other cable lengths or cable specifications on request.



# DISTRIBUTION BOXES (HS-SERIES)

**Description**  
Hard shell Connectors for Use with Distribution Boxes-On board connector and pigtail type

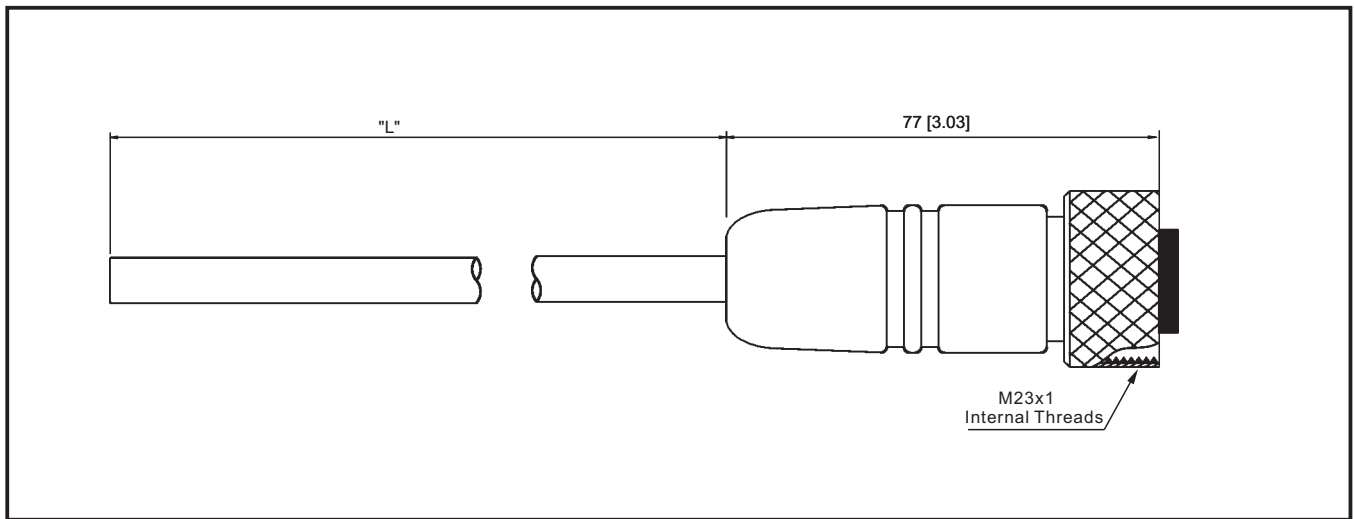
**REQUIRES SPANNER FOR ASSEMBLY**

Technical Data			
1.Application Class:	-25°C to +110°C	Current Rating:	7.5Amps
2.Materials:		Working Voltage:	60VAC/75VDC
Body:	CuZn,brass,nickeled	Dielectric Withstanding Voltage:	1.5 KVAC eff./60sec
Contact:	CuZn,pre-nickeled and gold plated	Insulation Resistance:	>10 <sup>9</sup> Ω
Coupling Nut:	CuZn,brass,nickeled	4.Mechanical Data:	
Insert:	PBTP,GF	Insertion Force (contact):	≤ 2.0N (.45LBS)
O-Ring:	Viton	Withdrawal Force (contact):	≥ 0.5N (.11LBS)
3.Electrical Data:		Protection:	IP65
Contact Resistance:	≤ 5mΩ	Mode of Termination:	Solder types

Part Number	Face View of Female Plug	Color Code	Cable Type		
			Lead(mm <sup>2</sup> )	Outer Jacket	
HFS-12P-14XX + HFA-12P-Q		1= Orange 2= Blue 3= White/blk Tr. 4=Red/blk Tr. 5= Green/blk Tr. 6= Orange/blk Tr. 7= Blue/blk Tr. 8=Black/white Tr.	12x0.34(128x φ 0.10)	φ 12.8	PVC
HFS-12P-39XX + HFA-12P-Q		9= Green 10= Red 11= White 12= Black(GND)	12x0.34(128x φ 0.10)	φ 12.8	PUR
HFS-19P-38XX + HFA-19P-Q		1= Violet 2= Red 3= Grey 4= Red/blue 5= Green 6= Blue 7= Grey/pink 8= White/green 9= White/yellow 10= White/gray 11= Black 12= Yellow/green 13= Yellow/brown 14= Brown/green 15= White 16= Yellow 17= Pink 18= Gray/brown 19= Brown	3x1.0(128x φ 0.10) 16x0.5(64x φ 0.10)	φ 11.6	PUR

xx-Standard cable available in 5-meter(05),and 10-meter. Other cable length or cable specifications on request.

# DISTRIBUTION BOXES(MINI CONNECTORS)



## Description

Mini Connectors for Distribution Boxes-DBRT SERIES,DBRP SERIES and Z-MS12KAS60XX, Z-MS12KAT50XX

## Technical Data

1.Application Class: -40°C to +90°C

### 2.Materials:

Body: PUR(Polyurethane),Yellow  
 Contact: Brass,gold over nickel plating  
 Coupling Nut: Nickel plated brass  
 Insert: PUR(Polyurethane),Yellow

### 3.Electrical Data:

Contact Resistance:  $\leq 5m \Omega$   
 Current Rating: 5Amps  
 Working Voltage: 600VAC  
 Dielectric Withstanding Voltage: 2 KVAC RMS/60sec  
 Insulation Resistance:  $>10^9 \Omega$

### 4.Mechanical Data:

Insertion Force (contact):  $\leq 3.0N$  (.67LBS)  
 Withdrawal Force (contact):  $\geq 1.0N$  (.22LBS)  
 Protection: IP68(only in fully locked position)  
 Shock: IEC-68-2-27  
 Vibration: IEC-68-2-6

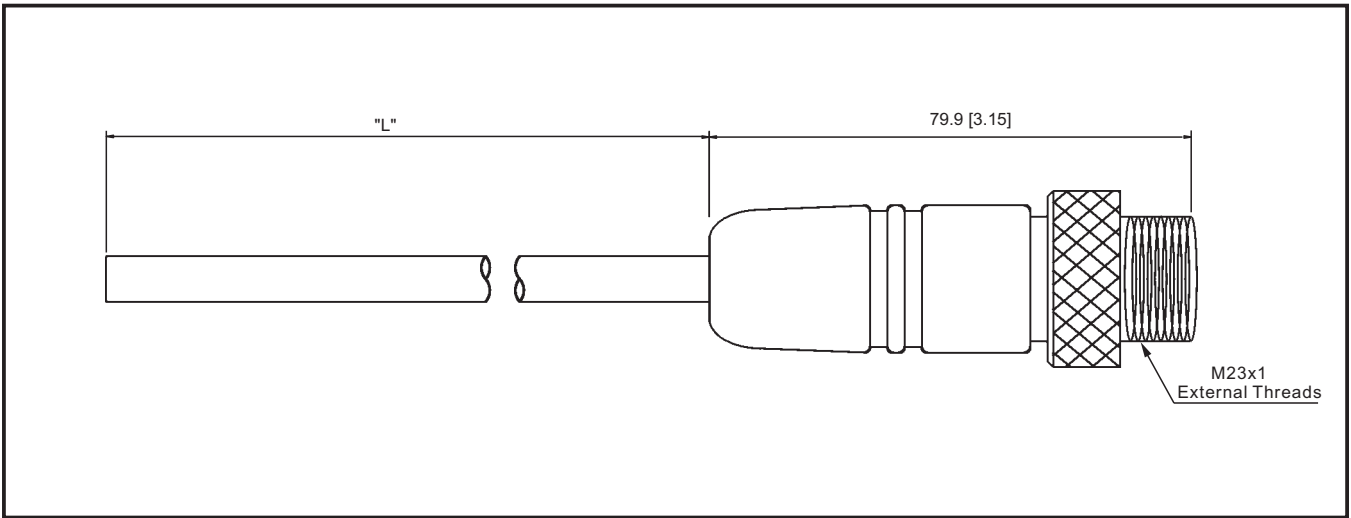
### 5. CE Conformity with Standards:

EN50082-1, EN50082-2 and IEC60947-5-2

Part Number	Face View of Female Plug	Color Code	Cable Type	
			Lead(mm <sup>2</sup> )	Outer Jacket
Z-FS12KAS60XX	<p>M23 x 1</p>	1= Black 2= Red 3= Pink 4= Gray 5= Yellow 6= Green 7= White 8= Violet 9= White with yellow TR. 10= Blue 11= N/C 12= Brown	3x0.75(96x $\Phi$ 0.10)	SOOW-A PVC
Z-FS12KAT50XX			8x0.34(42x $\Phi$ 0.10)	STOO PVC

xx-Standard cable available in 5-meter(05),and 10-meter.  
 Other cable lengths or cable specifications on request.

# DISTRIBUTION BOXES (MINI CONNECTORS)



## Description

Mini Connectors for Z-FS12KAS60XX and Z-FS12KAT50XX

## Technical Data

1.Application Class: -40°C to +90°C

### 2.Materials:

Body: PUR(Polyurethane),Yellow  
 Contact: Brass,gold over nickel plating  
 Coupling Nut: Nickel plated brass  
 Insert: PUR(Polyurethane),Yellow

### 3.Electrical Data:

Contact Resistance:  $\leq 5m \Omega$   
 Current Rating: 5Amps  
 Working Voltage: 600VAC  
 Dielectric Withstanding Voltage: 2 KVAC RMS/60sec  
 Insulation Resistance:  $>10^9 \Omega$

### 4.Mechanical Data:

Insertion Force (contact):  $\leq 3.0N (.67LBS)$   
 Withdrawal Force (contact):  $\geq 1.0N (.22LBS)$   
 Protection: IP68(only in fully locked position)  
 Shock: IEC-68-2-27  
 Vibration: IEC-68-2-6

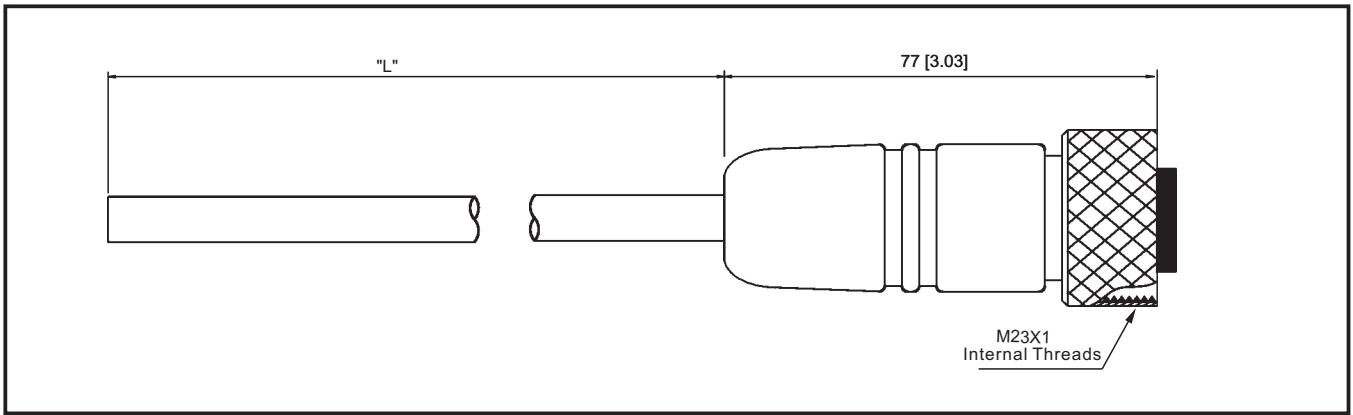
### 5. CE Conformity with Standards:

EN50082-1, EN50082-2 and IEC60947-5-2

Part Number	Face View of Male Plug	Color Code	Cable Type	
			Lead(mm <sup>2</sup> )	Outer Jacket
Z-MS12KAS60XX		1= Black 2= Red 3= Pink 4= Gray 5= Yellow 6= Green 7= White 8= Violet 9= White with yellow TR. 10= Blue 11= N/C 12= Brown	3x0.75(96x $\Phi$ 0.10)	SOOW-A PVC
Z-MS12KAT50XX			8x0.34(42x $\Phi$ 0.10)	STOO PVC

xx-Standard cable available in 5-meter(05),and 10-meter.  
 Other cable length or cable specifications on request.

# DISTRIBUTION BOXES(MINI CONNECTORS)



## Description

Mini Connectors for Distribution Boxes-DBRT SERIES, DBRP SERIES and Z-MS19KAU100XX

## Technical Data

1.Application Class: -40°C to +90°C

### 2.Materials:

Body: PUR(Polyurethane),Yellow  
 Contact: Brass,gold over nickel plating  
 Coupling Nut: Nickel plated brass  
 Insert: PUR(Polyurethane),Yellow

### 3.Electrical Data:

Contact Resistance:  $\leq 5m \Omega$   
 Current Rating: 5Amps  
 Working Voltage: 300VAC-RMS  
 Dielectric Withstanding Voltage: 2KVAC RMS/60sec  
 Insulation Resistance:  $>10^9 \Omega$

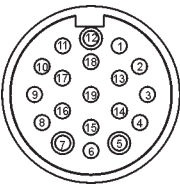
### 4.Mechanical Data:

Insertion Force (contact):  $\leq 2.0N .45LBS$   
 Withdrawal Force (contact):  $\geq 0.5N .11LBS$   
 Protection: IP68(only in fully locked position)  
 Shock: IEC-68-2-27  
 Vibration: IEC-68-2-6

### 5. CE Conformity with Standards:

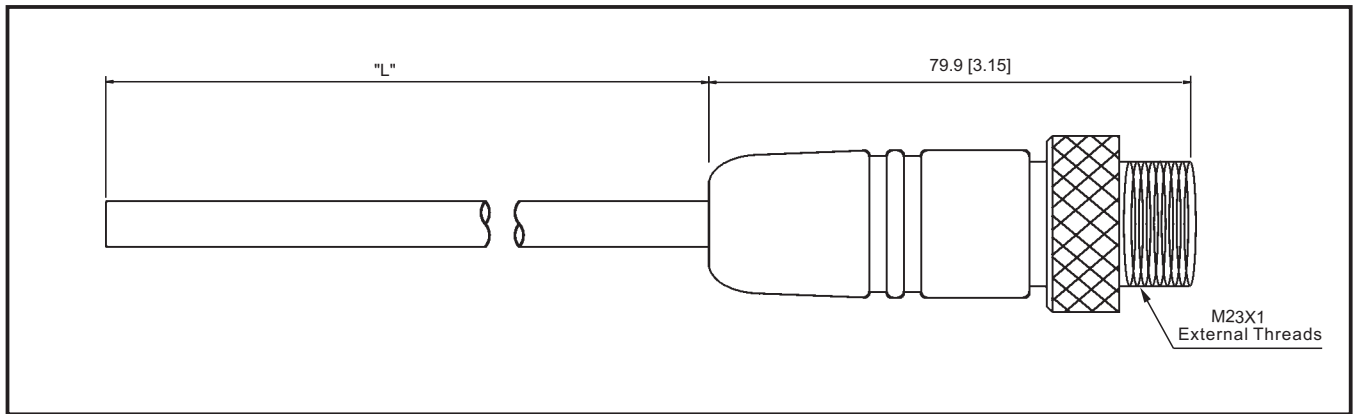
EN50082-1, EN50082-2 and IEC60947-5-2

## Order Information

Part Number	Face View of Female Plug	Color Code	Cable Type	
			Lead(mm <sup>2</sup> )	Outer Jacket
Z-FS19KAU100XX		M23 x 1  1= Violet 2= Red 3= Grey 4= Red/blue 5= Blue(-) 6= Green 7= Brown(+) 8= White/green 9= White/yellow 10= white/gray 11= Black 12= Yellow/green(gnd) 13= Yellow/brown 14= Brown/green 15= White 16= Yellow 17= Pink 18= Gray 19= Gray/pink	3x0.75(96x $\Phi$ 0.10)	$\Phi$ 9.0  PUR
			8x0.34(42x $\Phi$ 0.10)	

xx-Standard cable available in 5-meter(05),and 10-meter.  
 Other cable lengths or cable specifications on request.

# DISTRIBUTION BOXES (MINI CONNECTORS)



## Description

Mini Connectors for Z-FS19KAU100XX

## Technical Data

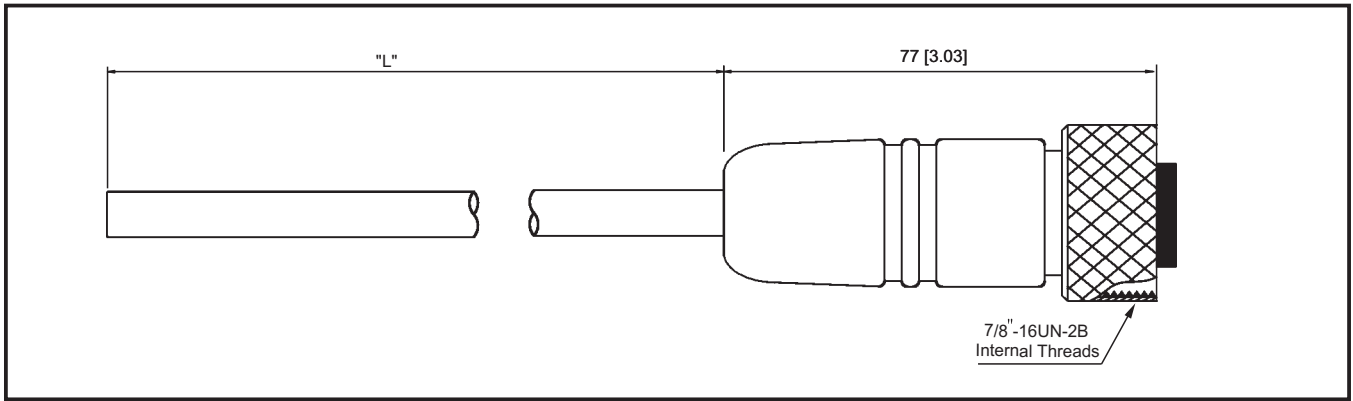
<p><b>1.Application Class:</b> -40°C to +90°C</p> <p><b>2.Materials:</b>                  Body: PUR(Polyurethane),Yellow                  Contact: Brass,gold over nickel plating                  Coupling Nut: Nickel blated brass                  Insert: PUR(Polyurethane),Yellow</p> <p><b>3.Electrical Data:</b>                  Contact Resistance: <math>\leq 5m \Omega</math>                  Current Rating: 5Amps                  Working Voltage: 300VAC-RMS                  Dielectric Withstanding Voltage: 2 KVAC RMS/60sec                  Insulation Resistance: <math>&gt;10^9 \Omega</math></p>	<p><b>4.Mechanical Data:</b>                  Insertion Force (contact): <math>\leq 2.0N .45LBS</math>                  Withdrawal Force (contact): <math>\geq 0.5N .11LBS</math>                  Protection: IP68(only in fully locked position)                  Shock: IEC-68-2-27                  Vibration: IEC-68-2-6</p> <p><b>5. CE Conformity with Standards:</b>                  EN50082-1, EN50082-2 and IEC60947-5-2</p>
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## Order Information

Part Number	Face View of Male Plug	Color Code	Cable Type	
			Lead(mm <sup>2</sup> )	Outer Jacket
Z-MS19KAU100XX		M23 x 1  1= Violet                      13= Yellow/brown 2= Red                            14= Brown/green 3= Grey                           15= White 4= Red/blue                    16= Yellow 5= Blue(-)                      17= Pink 6= Green                         18= Gray 7= Brown(+)                    19= Gray/pink 8= White/green 9= White/yellow 10= white/gray 11= Black 12= Yellow/green(gnd)	3x0.75(96x $\Phi$ 0.10)	$\Phi$ 9.0      PUR
			8x0.34(42x $\Phi$ 0.10)	

xx-Standard cable available in 5-meter(05),and 10-meter. Other cable length or cable specifications on request.

# DISTRIBUTION BOXES(MINI CONNECTORS)



## Description

Mini Connectors for Mini-style Distribution Boxes-DSSZ4-3/3AZ-F6, Micro-style Distribution Boxes-ASSU4-3/3AZ-F6 and Z-MS6KAA452

## Technical Data

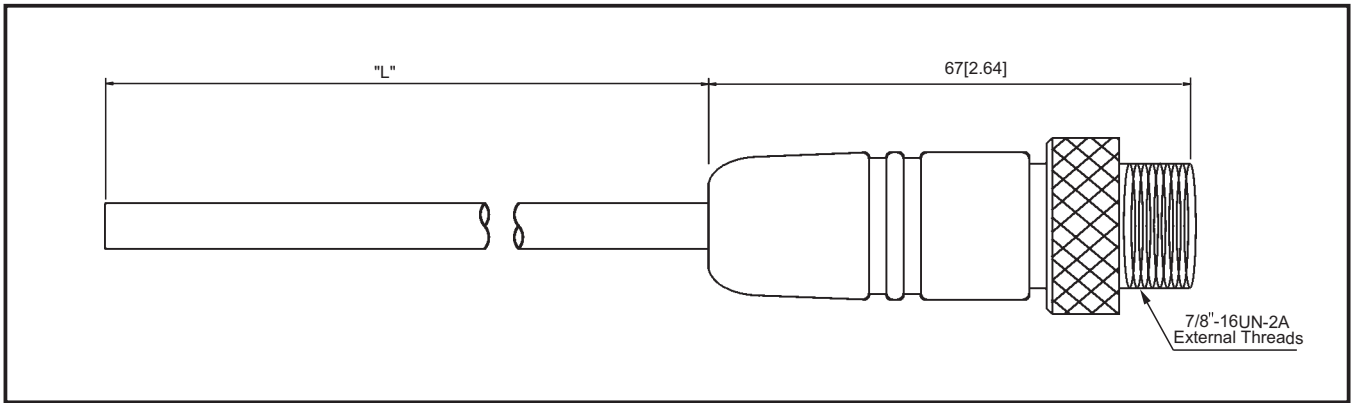
<b>1.Application Class:</b>	-40°C to +90°C	<b>4.Mechanical Data:</b>	
<b>2.Materials:</b>		Insertion Force (contact):	≤ 3.0N (.67LBS)
Body:	PUR(Polyurethane),Yellow	Withdrawal Force (contact):	≥ 1.0N (.22LBS)
Contact:	Brass,gold over nickel plating	Protection:	IP68(only in fully locked position)
Coupling Nut:	Nickel plated brass	Shock:	IEC-68-2-27
Insert:	PUR(Polyurethane),Yellow	Vibration:	IEC-68-2-6
<b>3.Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5m Ω	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating:	6A		
Working Voltage:	600VAC		
Dielectric Withstanding Voltage:	2 KVAC RMS/60sec		
Insulation Resistance:	>10 <sup>9</sup> Ω		

## Order Information

Part Number	Face View of Female Plug	Color Code	Cable Type		
			Lead(mm <sup>2</sup> )	Outer jacket	
Z-FS6KAA452		1=White 2=Red 3=Green 4=Orange 5=Black 6=Blue	8x0.75(96x φ0.10)	φ 12.7	STOW-A PVC

xx-Standard cable available in 2-meter(2) 5-meter(5),and 10-meter.  
Other cable lengths or cable specifications on request.

# DISTRIBUTION BOXES (MINI CONNECTORS)



## Description

Mini Connectors for Z-FS6KAA452

## Technical Data

1.Application Class: -40°C to +90°C

### 2.Materials:

Body: PUR(Polyurethane),Yellow  
 Contact: Brass,gold over nickel plating  
 Coupling Nut: Nickel blated brass  
 Insert: PUR(Polyurethane),Yellow

### 3.Electrical Data:

Contact Resistance:  $\leq 5m \Omega$   
 Current Rating: 6A  
 Working Voltage: 600VAC  
 Dielectric Withstanding Voltage: 2 KVAC RMS/60sec  
 Insulation Resistance:  $>10^9 \Omega$

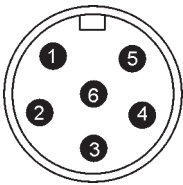
### 4.Mechanical Data:

Insertion Force (contact):  $\leq 3.0N (.67LBS)$   
 Withdrawal Force (contact):  $\geq 1.0N (.22LBS)$   
 Protection: IP68(only in fully locked position)  
 Shock: IEC-68-2-27  
 Vibration: IEC-68-2-6

### 5. CE Conformity with Standards:

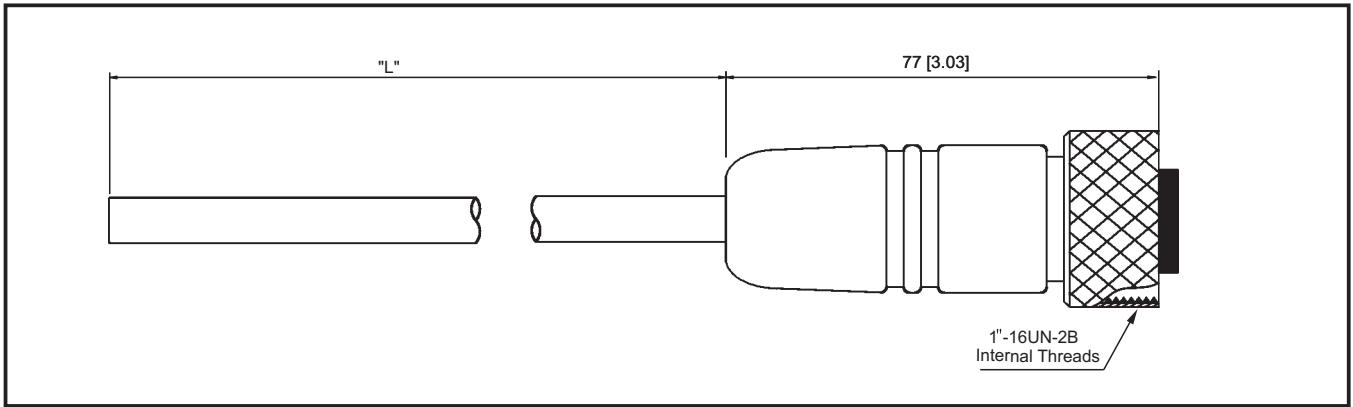
EN50082-1, EN50082-2 and IEC60947-5-2

## Order Information

Part Number	Face View of Male Plug		Color Code	Cable Type		
				Lead(mm <sup>2</sup> )	Outer Jacket	
Z-MS6KAA452		7/8"-16	1=White 2=Red 3=Green 4=Orange 5=Black 6=Blue	8x0.75(96xφ 0.10)	Φ 12.7	STOW-A PVC

xx-Standard cable available in 2-meter(2) 5-meter(5),and 10-meter.  
 Other cable length or cable specifications on request.

# DISTRIBUTION BOXES(MINI CONNECTORS)



## Description

Mini Connectors for Mini-style Distribution Boxes-DSSZ4-3/3AZ-F7, Micro-Style Distribution Boxes-ASSU4-3/3AA-F7 and Z-MS7KAA462

## Technical Data

<p><b>1.Application Class:</b> -40°C to +90°C</p> <p><b>2.Materials:</b>                  Body: PUR(Polyurethane),Yellow                  Contact: Brass,gold over nickel plating                  Coupling Nut: Nickel plated brass                  Insert: PUR(Polyurethane),Yellow</p> <p><b>3.Electrical Data:</b>                  Contact Resistance: <math>\leq 5m\Omega</math>                  Current Rating: 6A                  Working Voltage: 600VAC                  Dielectric Withstanding Voltage: 2 KVAC RMS/60sec                  Insulation Resistance: <math>&gt;10^9\Omega</math></p>	<p><b>4.Mechanical Data:</b>                  Insertion Force (contact): <math>\leq 3.0N (.67LBS)</math>                  Withdrawal Force (contact): <math>\geq 1.0N (.22LBS)</math>                  Protection: IP68(only in fully locked position)                  Shock: IEC-68-2-27                  Vibration: IEC-68-2-6</p> <p><b>5. CE Conformity with Standards:</b>                  EN50082-1, EN50082-2 and IEC60947-5-2</p>
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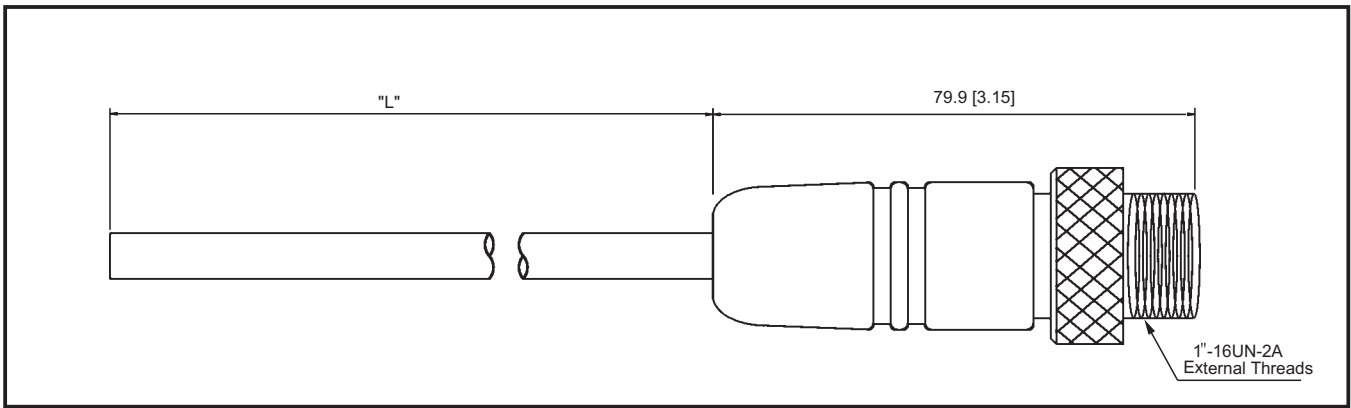
## Order Information

Part Number	Face View of Female Plug	Color Code	Cable Type	
			Lead(mm <sup>2</sup> )	Outer jacket
Z-FS7KAA462	<p>1"-16</p>	1=White/black Tr. 2=Black 3=White 4=Red 5=Orange 6=Bule 7=Green	7x1.5(166x $\phi$ 0.10)	$\phi$ 15.1 STOW-A PVC

xx-Standard cable available in 2-meter(2) 5-meter(5),and 10-meter.  
 Other cable lengths or cable specifications on request.



# DISTRIBUTION BOXES (MINI CONNECTORS)



## Description

Mini Connectors for Z-FS7KAA462

## Technical Data

1.Application Class: -40°C to +90°C

### 2.Materials:

Body: PUR(Polyurethane),Yellow  
 Contact: Brass,gold over nickel plating  
 Coupling Nut: Nickel blated brass  
 Insert: PUR(Polyurethane),Yellow

### 3.Electrical Data:

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 6A  
 Working Voltage: 600VAC  
 Dielectric Withstanding Voltage: 2 KVAC RMS/60sec  
 Insulation Resistance:  $>10^9\Omega$

### 4.Mechanical Data:

Insertion Force (contact):  $\leq 3.0N (.67LBS)$   
 Withdrawal Force (contact):  $\geq 1.0N (.22LBS)$   
 Protection: IP68(only in fully locked position)  
 Shock: IEC-68-2-27  
 Vibration: IEC-68-2-6

### 5. CE Conformity with Standards:

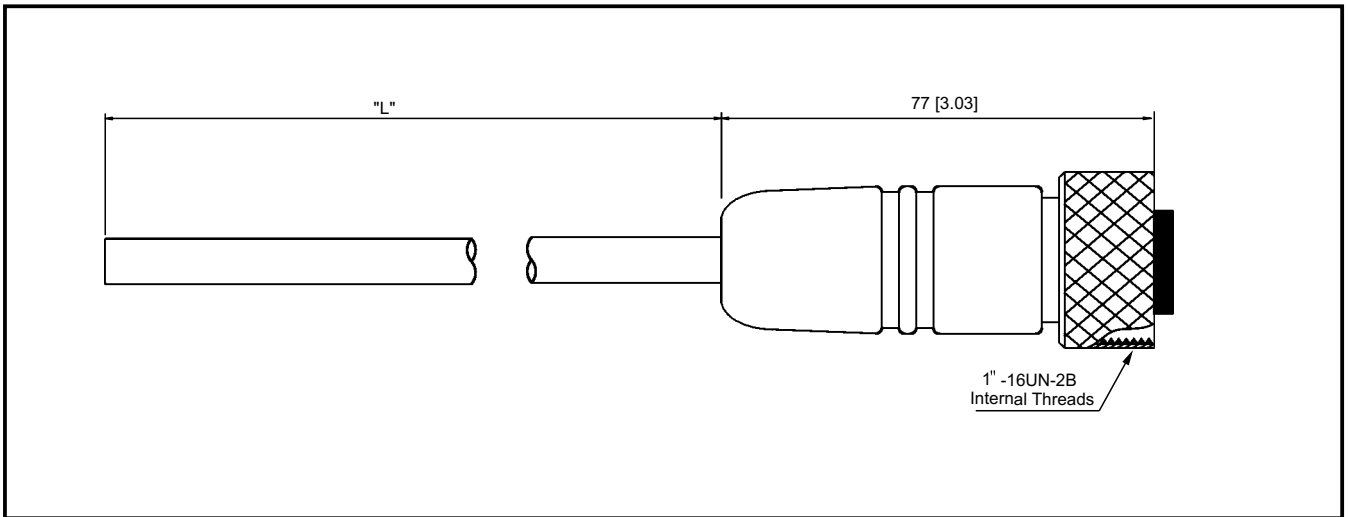
EN50082-1, EN50082-2 and IEC60947-5-2

## Order Information

Part Number	Face View of Male Plug	Color Code	Cable Type		
			Lead(mm <sup>2</sup> )	Outer Jacket	
Z-MS7KAA462	<p>1"-16</p>	<p>1=White/black Tr.                  2=Black                  3=White                  4=Red                  5=Orange                  6=Bule                  7=Green</p>	7x1.5(166x $\phi$ 0.10)	$\phi$ 15.1	STOW-A PVC

xx-Standard cable available in 2-meter(2) 5-meter(5),and 10-meter.  
 Other cable length or cable specifications on request.

# DISTRIBUTION BOXES(MINI CONNECTORS)



## Description

Mini Connectors for Mini-style Distribution Boxes-DSSZ6-3/3AZ-F8, Micro-Style Distribution Boxes-ASSU4-3/3AZ-F7 and Z-MS8KAA472

## Technical Data

1.Application Class: -40°C to +90°C

### 2.Materials:

Body: PUR(Polyurethane),Yellow  
 Contact: Brass,gold over nickel plating  
 Coupling Nut: Nickel plated brass  
 Insert: PUR(Polyurethane),Yellow

### 3.Electrical Data:

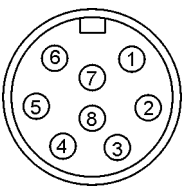
Contact Resistance:  $\leq 5m \Omega$   
 Current Rating: 7A  
 Working Voltage: 600VAC  
 Dielectric Withstanding Voltage: 2 KVAC RMS/60sec  
 Insulation Resistance:  $>10^9 \Omega$

### 4.Mechanical Data:

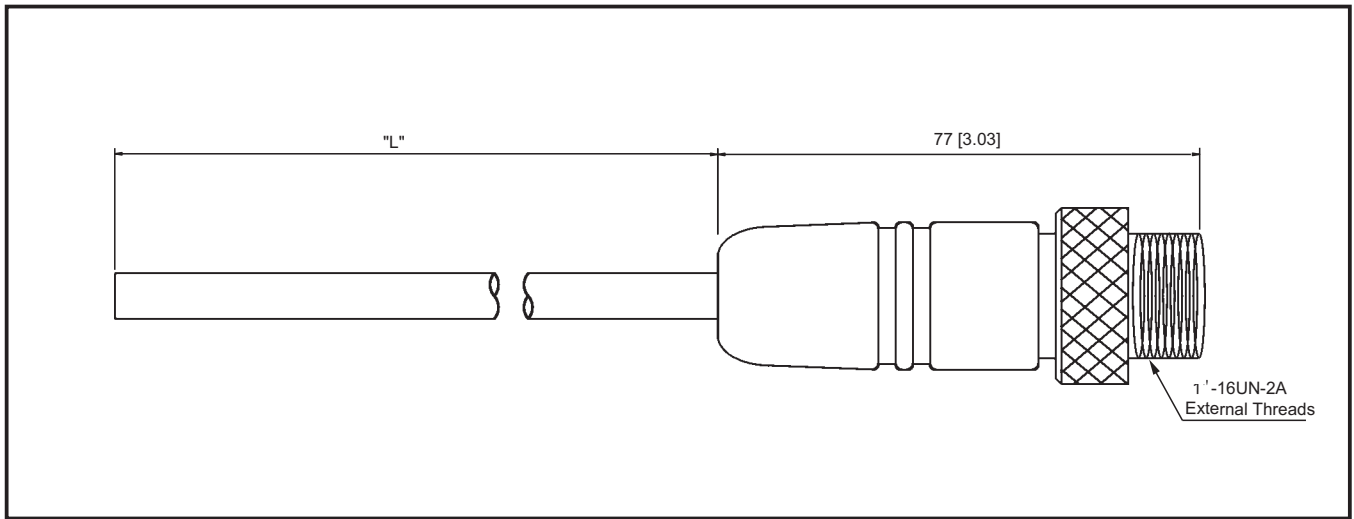
Insertion Force (contact):  $\leq 3.0N (.67LBS)$   
 Withdrawal Force (contact):  $\geq 1.0N (.22LBS)$   
 Protection: IP68(only in fully locked position)  
 Shock: IEC-68-2-27  
 Vibration: IEC-68-2-6

### 5. CE Conformity with Standards:

EN50082-1, EN50082-2 and IEC60947-5-2

Part Number	Face View of Female Plug	Color Code	Cable Type		
			Lead(mm <sup>2</sup> )	Outer Jacket	
Z-FS8KAA472	 1" -16	1=Orange 2=Blue 3=White/Blk tr 4=Black 5=White 6=Red 7=Green 8=Red/Blk tr	8x1.5(166x $\phi$ 0.10)	$\phi$ 16.1	STOW-A PVC
xx-Standard cable available in 2-meter(2) 5-meter(5),and 10-meter. Other cable lengths or cable pecifications on request.					

# DISTRIBUTION BOXES (MINI CONNECTORS)



## Description

Mini Connectors for Z-FS8KAA472

## Technical Data

1. Application Class: -40°C to +90°C

### 2. Materials:

Body: PUR(Polyurethane), Yellow  
 Contact: Brass, gold over nickel plating  
 Coupling Nut: Nickel plated brass  
 Insert: PUR(Polyurethane), Yellow

### 3. Electrical Data:


Contact Resistance:  $\leq 5\text{m}\Omega$   
 Current Rating: 7A  
 Working Voltage: 600VAC  
 Dielectric Withstanding Voltage: 2 KVAC RMS/60sec  
 Insulation Resistance:  $>10^9\Omega$

### 4. Mechanical Data:

Insertion Force (contact):  $\leq 3.0\text{N}$  (.67LBS)  
 Withdrawal Force (contact):  $\geq 1.0\text{N}$  (.22LBS)  
 Protection: IP68 (only in fully locked position)  
 Shock: IEC-68-2-27  
 Vibration: IEC-68-2-6

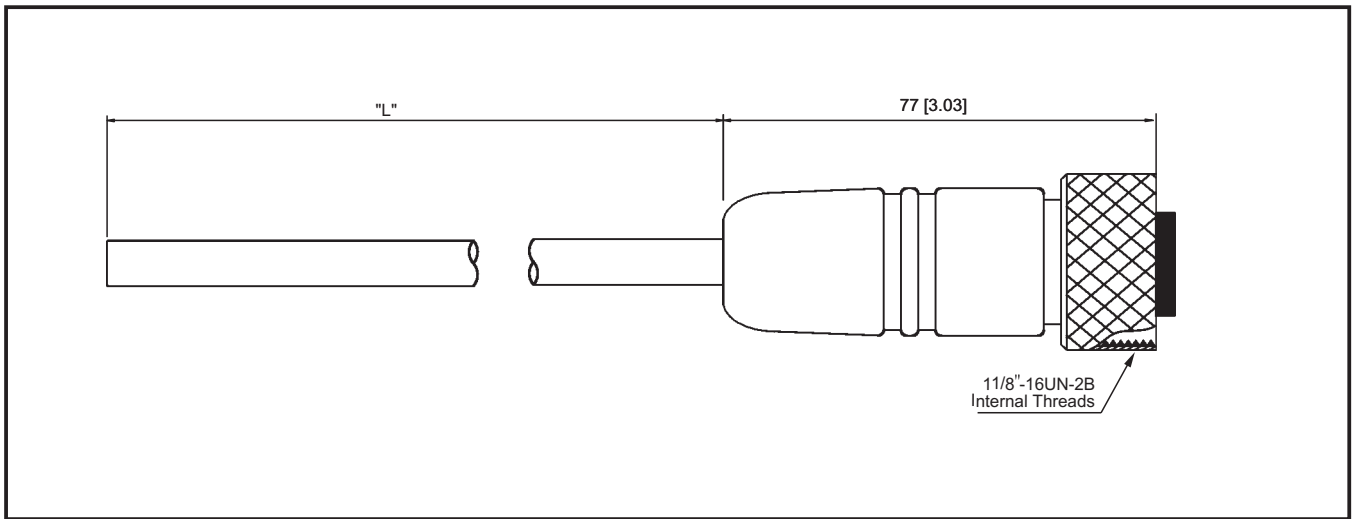
### 5. CE Conformity with Standards:

EN50082-1, EN50082-2 and IEC60947-5-2

Part Number	Face View of Male Plug	Color Code	Cable Type		
			Lead(mm <sup>2</sup> )	Outer Jacket	
Z-MS8KAA472	 1" -16	1=Orange 2=Blue 3=White/Blk tr 4=Black 5=White 6=Red 7=Green 8=Red/Blk tr	8x1.5(166x $\phi$ 0.10)	$\phi$ 16.1	STOW-A PVC

xx-Standard cable available in 2-meter(2) 5-meter(5), and 10-meter.  
 Other cable length or cable specifications on request.

# DISTRIBUTION BOXES(MINI CONNECTORS)



## Description

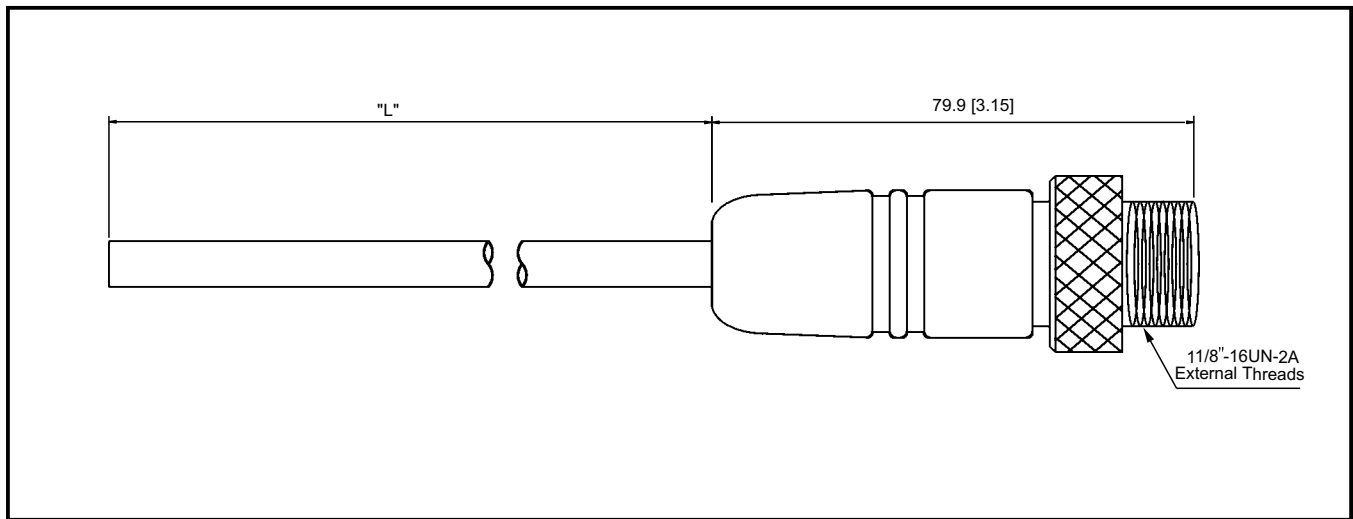
Mini Connectors for Mini-style Distribution Boxes-DSSZ6-3/3AA-F9, Micro-Style Distribution Boxes-ASSU4-3/3AZ-F9 and Z-MS9KAA482

## Technical Data

<b>1.Application Class:</b>	-40°C to +90°C	<b>4.Mechanical Data:</b>	
<b>2.Materials:</b>		Insertion Force (contact):	≤ 3.0N (.67LBS)
Body:	PUR(Polyurethane),Yellow	Withdrawal Force (contact):	≥ 1.0N (.22LBS)
Contact:	Brass,gold over nickel plating	Protection:	IP68(only in fully locked position)
Coupling Nut:	Nickel plated brass	Shock:	IEC-68-2-27
Insert:	PUR(Polyurethane),Yellow	Vibration:	IEC-68-2-6
<b>3.Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5m Ω	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating:	6A		
Working Voltage:	600VAC		
Dielectric Withstanding Voltage:	2 kVAC RMS/60sec		
Insulation Resistance:	>10 <sup>9</sup> Ω		

Part Number	Face View of Female Plug	Color Code	Cable Type		
			Lead(mm <sup>2</sup> )	Outer Jacket	
Z-FS9KAA482		1=orange 2=blue 3=red/blk Tr 4=green/blk Tr 5=white 6=red 7=green 8=white/blk Tr 9=black	9x1.5(166 xφ 0.10)	φ 16.9	STOW-A PVC
xx-Standard cable available in 2-meter(2) 5-meter(5),and 10-meter. Other cable lengths or cable specifications on request.					

# DISTRIBUTION BOXES (MINI CONNECTORS)



## Description

Mini Connectors for Z-FS9KAA482

## Technical Data

1. Application Class: -40°C to +90°C

### 2. Materials:

Body: PUR(Polyurethane), Yellow  
 Contact: Brass, gold over nickel plating  
 Coupling Nut: Nickel plated brass  
 Insert: PUR(Polyurethane), Yellow

### 3. Electrical Data:

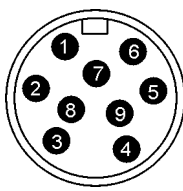
Contact Resistance:  $\leq 5m \Omega$   
 Current Rating: 6A  
 Working Voltage: 600VAC  
 Dielectric Withstanding Voltage: 2 KVAC RMS/60sec  
 Insulation Resistance:  $>10^9 \Omega$

### 4. Mechanical Data:

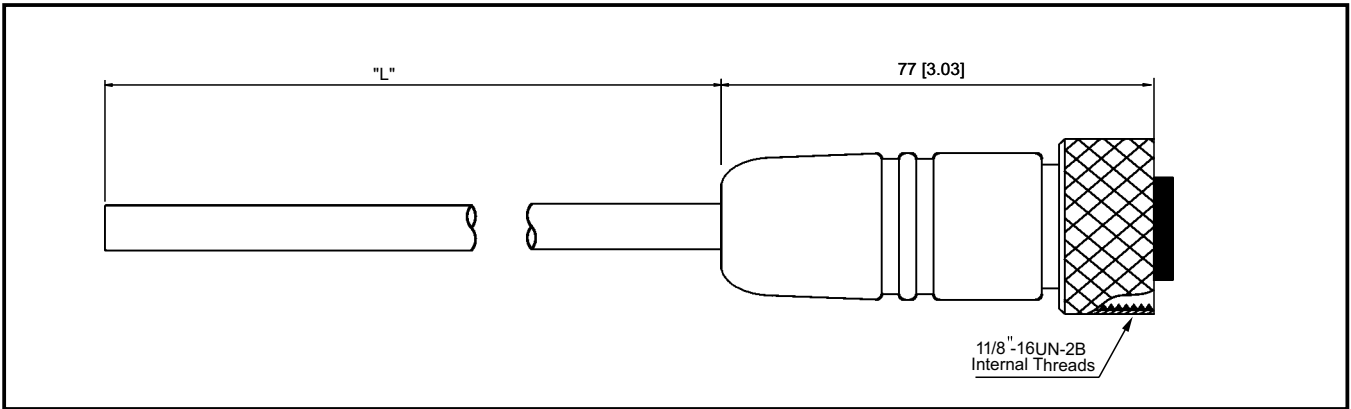
Insertion Force (contact):  $\leq 3.0N (.67LBS)$   
 Withdrawal Force (contact):  $\geq 1.0N (.22LBS)$   
 Protection: IP68(only in fully locked position)  
 Shock: IEC-68-2-27  
 Vibration: IEC-68-2-6

### 5. CE Conformity with Standards:

EN50082-1, EN50082-2 and IEC60947-5-2

Part Number	Face View of Male Plug		Color Code	Cable Type		
				Lead(mm <sup>2</sup> )	Outer Jacket	
Z-MS9KAA482		11/8"-16	1=Orange 2=Blue 3=Red/blk Tr 4=Green/blk Tr 5=White 6=Red 7=Green 8=White/blk Tr 9=Black	9x1.5(166x $\phi$ 0.10)	$\phi$ 16.9	STOW-A PVC
xx-Standard cable available in 2-meter(2) 5-meter(5), and 10-meter. Other cable length or cable specifications on request.						

# DISTRIBUTION BOXES(MINI CONNECTORS)



## Description

Mini Connectors for Mini-style Distribution Boxes-DSSZ4-5/5AZ-F10,DSSZ8-3/3AZ-F10, Micro-Style Distribution Boxes- ASSU4-3/3AZ-F10 and Z-MS10KAA492

## Technical Data

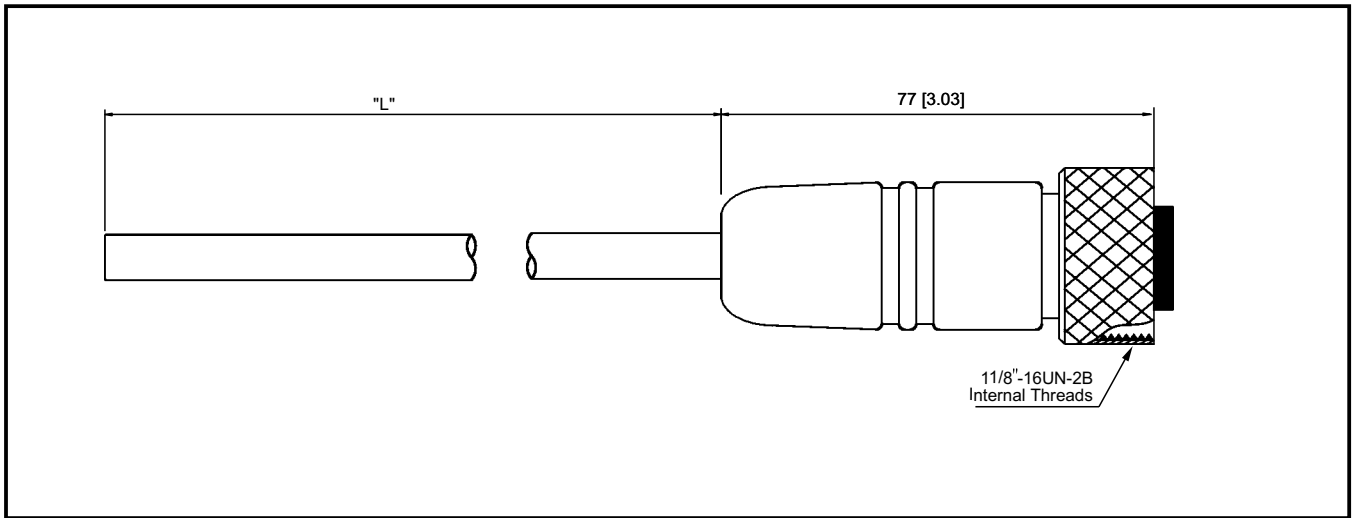
<b>1.Application Class:</b>	-40°C to +90°C	<b>4.Mechanical Data:</b>	
<b>2.Materials:</b>		Insertion Force (contact):	≤ 3.0N (.67LBS)
Body:	PUR(Polyurethane),Yellow	Withdrawal Force (contact):	≥ 1.0N (.22LBS)
Contact:	Brass,gold over nickel plating	Protection:	IP68(only in fully locked position)
Coupling Nut:	Nickel plated brass	Shock:	IEC-68-2-27
Insert:	PUR(Polyurethane),Yellow	Vibration:	IEC-68-2-6
<b>3.Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5mΩ	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating:	7A		
Working Voltage:	600VAC		
Dielectric Withstanding Voltage:	2 KVAC RMS/60sec		
Insulation Resistance:	>10 <sup>9</sup> Ω		

## Order Information

Part Number	Face View of Female Plug	Color Code	Cable Type		
			Lead(mm <sup>2</sup> )	Outer	Jacket
Z-FS10KAA492	 11/8"-16	1=Orange 2=Blue 3=White/blk Tr 4=Red/blk Tr 5=Green/blk Tr 6=Orange/blk Tr 7=Red 8=Green 9=Black 10=White	10x1.5(166xφ0.10)	φ17.5	STOW-A PVC

xx-Standard cable available in 2-meter(2) 5-meter(5),and 10-meter.  
Other cable lengths or cable specifications on request.

# DISTRIBUTION BOXES(MINI CONNECTORS)



## Description

Mini Connectors for Mini-style Distribution Boxes-DSSZ8-3/3AA-F12, Micro-Style Distribution Boxes-ASSU4-3/3AZ-F12 and Z-MS12KAA612

## Technical Data

1.Application Class: -40°C to +90°C

### 2.Materials:

Body: PUR(Polyurethane),Yellow  
 Contact: Brass,gold over nickel plating  
 Coupling Nut: Nickel plated brass  
 Insert: PUR(Polyurethane),Yellow

### 3.Electrical Data:

Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 7A  
 Working Voltage: 600VAC  
 Dielectric Withstanding Voltage: 2 KVAC RMS/60sec  
 Insulation Resistance:  $>10^9\Omega$

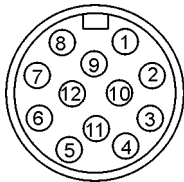
### 4.Mechanical Data:

Insertion Force (contact):  $\leq 3.0N (.67LBS)$   
 Withdrawal Force (contact):  $\geq 1.0N (.22LBS)$   
 Protection: IP68(only in fully locked position)  
 Shock: IEC-68-2-27  
 Vibration: IEC-68-2-6

### 5. CE Conformity with Standards:

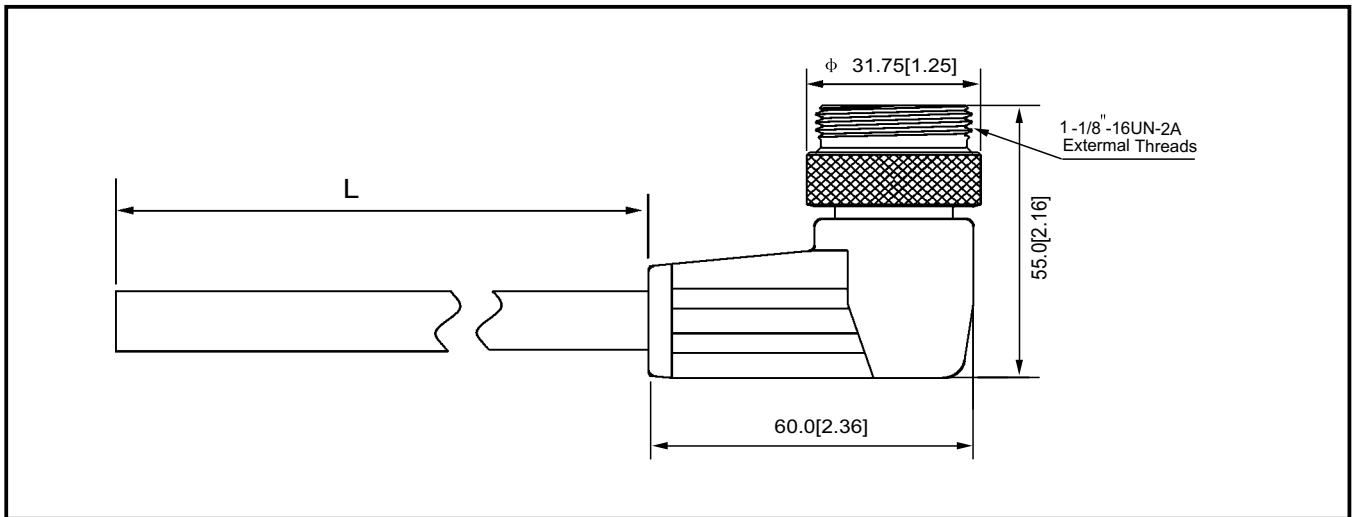
EN50082-1, EN50082-2 and IEC60947-5-2

## Order Information

Part Number	Face View of Female Plug	Color Code	Cable Type		
			Lead(mm <sup>2</sup> )	Outer Jacket	
Z-FS12KAA612	 11/8"-16	1=Orange 2=Blue 3=White/blk Tr 4=Red/blk Tr 5=Green/blk Tr 6=Orang/blk Tr 7=Blue/blk Tr 8=Black/white Tr 9=Green 10=Red 11=White 12=Black	12x1.5(166x $\phi$ 0.10)	$\phi$ 17.5	STOW-A PVC

xx-Standard cable available in 2-meter(2) 5-meter(5),and 10-meter.  
 Other cable lengths or cable specifications on request.

# DISTRIBUTION BOXES(MINI CONNECTORS)



## Description

Mini Connectors for Z-FA12KAA612, Z-FS12KAA612

## Technical Data

1.Application Class: -40°C to +90°C

### 2.Materials:

Body: PUR(Polyurethane),Yellow  
 Contact: Brass,gold over nickel plating  
 Coupling Nut: Nickel plated brass  
 Insert: PUR(Polyurethane),Yellow

### 3.Electrical Data:


Contact Resistance:  $\leq 5m\Omega$   
 Current Rating: 7A  
 Working Voltage: 600VAC  
 Dielectric Withstanding Voltage: 2 KVAC RMS/60sec  
 Insulation Resistance:  $>10^9 \Omega$

### 4.Mechanical Data:

Insertion Force (contact):  $\leq 3.0N (.67LBS)$   
 Withdrawal Force (contact):  $\geq 1.0N (.22LBS)$   
 Protection: IP68(only in fully locked position)  
 Shock: IEC-68-2-27  
 Vibration: IEC-68-2-6

### 5. CE Conformity with Standards:

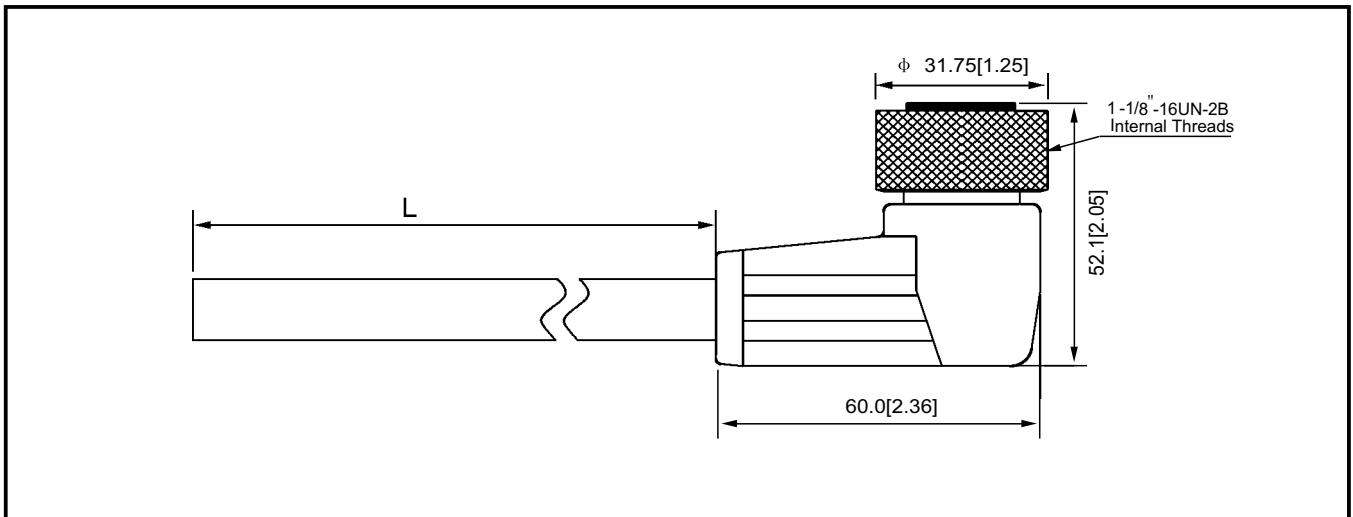
EN50082-1, EN50082-2 and IEC60947-5-2

Part Number	Face View of Male Plug	Color Code	Cable Type		
			Lead(mm <sup>2</sup> )	Outer Jacket	
Z-MA12KAA612	 11/8"-16	1=Orange 2=Blue 3=White/blk Tr 4=Red/blk Tr 5=Green/blk Tr 6=Orang/blk Tr 7=Blue/blk Tr 8=Black/white Tr 9=Green 10=Red 11=White 12=Black	12x1.5(166x $\phi$ 0.10)	$\phi$ 17.5	STOW-A PVC

xx-Standard cable available in 2-meter(2) 5-meter(5),and 10-meter.  
 Other cable lengths or cable specifications on request.



# DISTRIBUTION BOXES (MINI CONNECTORS)

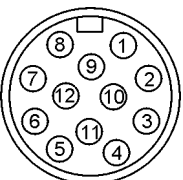


## Description

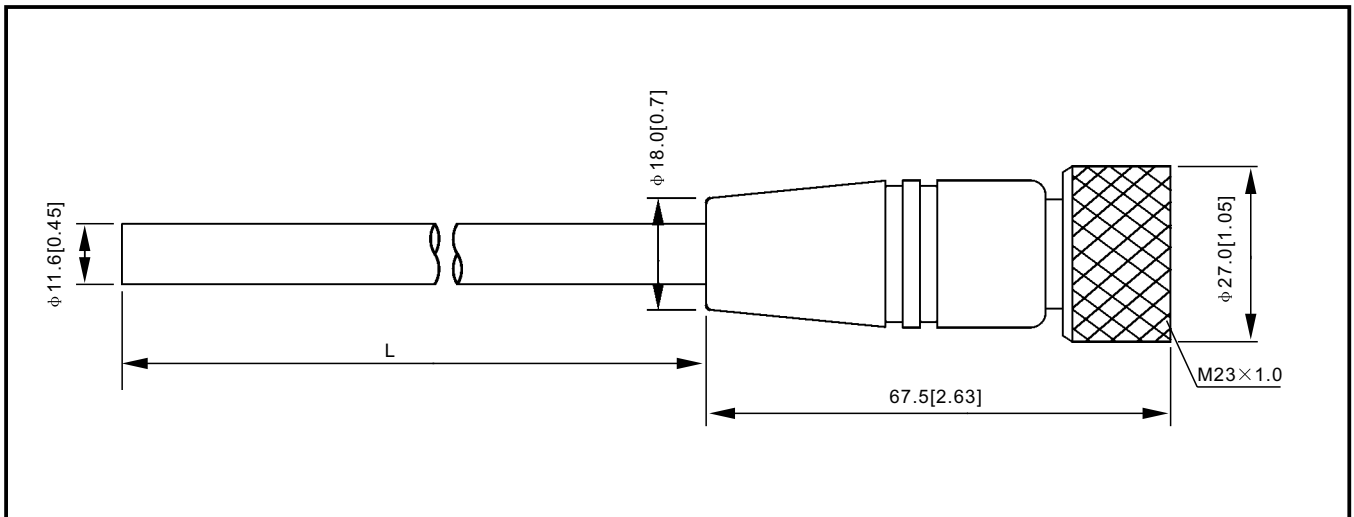
Mini Connectors for Z-MA12KAA612, Z-MS12KAA612

## Technical Data

<b>1.Application Class:</b>	-40°C to +90°C	<b>4.Mechanical Data:</b>	
<b>2.Materials:</b>		Insertion Force (contact):	≤ 3.0N (.67LBS)
Body:	PUR(Polyurethane),Yellow	Withdrawal Force (contact):	≥ 1.0N (.22LBS)
Contact:	Brass,gold over nickel plating	Protection:	IP68(only in fully locked position)
Coupling Nut:	Nickel blated brass	Shock:	IEC-68-2-27
Insert:	PUR(Polyurethane),Yellow	Vibration:	IEC-68-2-6
<b>3.Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5m Ω	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating:	7A		
Working Voltage:	600VAC		
Dielectric Withstanding Voltage:	2KVAC RMS/60sec		
Insulation Resistance:	>10 <sup>9</sup> Ω		

Part Number	Face View of female Plug		Color Code	Cable Type		
				Lead(mm <sup>2</sup> )	Outer Jacket	
Z-FA12KAA612		11/8"-16	1=Orange 2=Blue 3=White/blk Tr 4=Red/blk Tr 5=Green/blk Tr 6=Orang/blk Tr 7=Blue/blk Tr 8=Black/white Tr 9=Green 10=Red 11=White 12=Black	12x1.5(166x φ0.10)	φ 17.5	STOW-A PVC
xx-Standard cable available in 2-meter(2) 5-meter(5),and 10-meter. Other cable length or cable specifications on request.						

# DISTRIBUTION BOXES (MINI CONNECTORS)

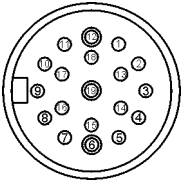


## Description

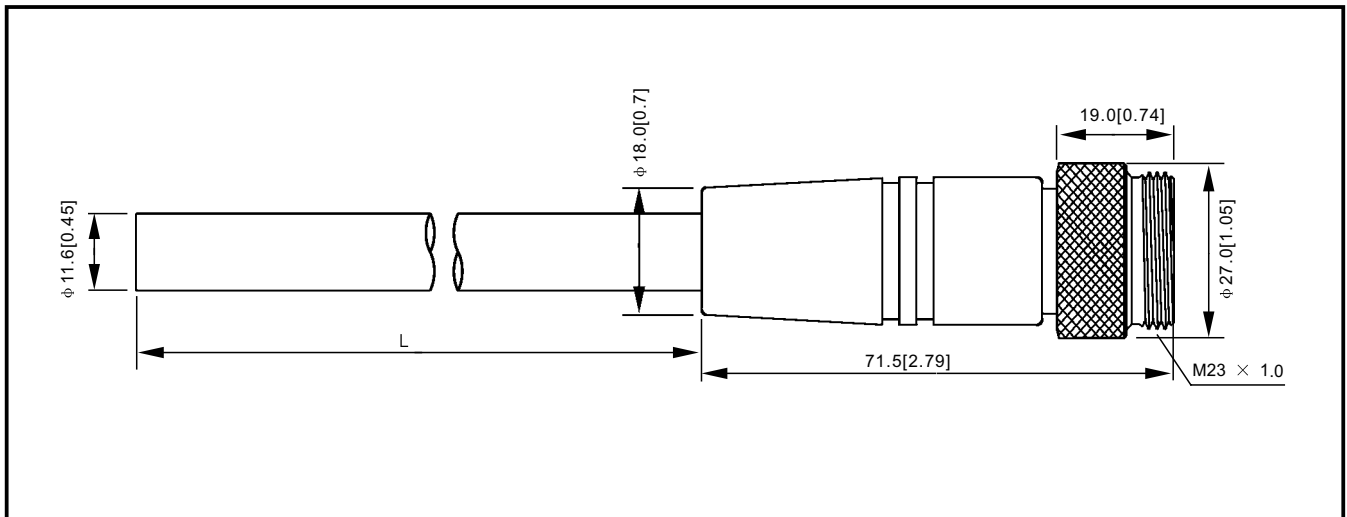
Mini Connectors for Z-MS19KAA1019

## Technical Data

<b>1.Application Class:</b>	-40°C to +90°C	<b>4.Mechanical Data:</b>	
<b>2.Materials:</b>		Insertion Force (contact):	$\leq 3.0N (.67LBS)$
Body:	PUR(Polyurethane),Yellow	Withdrawal Force (contact):	$\geq 1.0N (.22LBS)$
Contact:	Brass,gold over nickel plating	Protection:	IP68(only in fully locked position)
Coupling Nut:	Nickel blated brass	Shock:	IEC-68-2-27
Insert:	PUR(Polyurethane),Yellow	Vibration:	IEC-68-2-6
<b>3.Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	$\leq 5m\Omega$	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating:	6A		
Working Voltage:	600VAC		
Dielectric Withstanding Voltage:	2KVAC RMS/60sec		
Insulation Resistance:	$>10^9 \Omega$		

Part Number	Face View of Female Plug		Color Code	Cable Type		
				Lead(mm <sup>2</sup> )	Outer Jacket	
Z-FS19KAA619		M23 x 1.0	1=Violet 2=Red 3=Grey 4=Red/blue 5=Green 6=Blue 7=Grey/pink 8=White/green 9=White/yellow 10=White/gray 11=Black 12=Yellow/green 13=Yellow/brown 14=Brown/green 15=White 16=Yellow 17=Pink 18=Gray/brown 19=Brown	16x0.5(64x $\phi 0.10$ )	$\phi 11.6$	PUR
xx-Standard cable available in 2-meter(2) 5-meter(5),and 10-meter. Other cable length or cable specifications on request.						

# DISTRIBUTION BOXES (MINI CONNECTORS)



## Description

Mini Connectors for Z-FS19KAA619

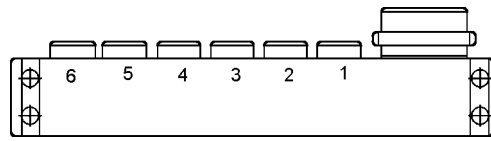
## Technical Data

<b>1.Application Class:</b>	-40°C to +90°C	<b>4.Mechanical Data:</b>	
<b>2.Materials:</b>		Insertion Force (contact):	≤ 3.0N (.67LBS)
Body:	PUR(Polyurethane),Yellow	Withdrawal Force (contact):	≥ 1.0N (.22LBS)
Contact:	Brass,gold over nickel plating	Protection:	IP68(only in fully locked position)
Coupling Nut:	Nickel blated brass	Shock:	IEC-68-2-27
Insert:	PUR(Polyurethane),Yellow	Vibration:	IEC-68-2-6
<b>3.Electrical Data:</b>		<b>5. CE Conformity with Standards:</b>	
Contact Resistance:	≤ 5mΩ	EN50082-1, EN50082-2 and IEC60947-5-2	
Current Rating:	6A		
Working Voltage:	600VAC		
Dielectric Withstanding Voltage:	2KVAC RMS/60sec		
Insulation Resistance:	>10 <sup>9</sup> Ω		

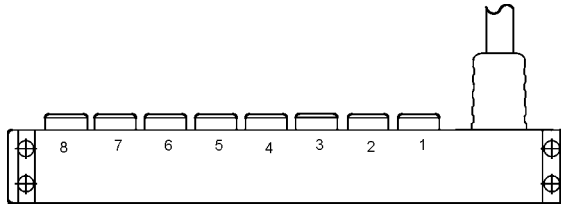
Part Number	Face View of Male Plug	Color Code	Cable Type	
			Lead(mm <sup>2</sup> )	Outer Jacket
Z-MS19KAA1019	 M23 x 1.0	1=Violet 2=Red 3=Grey 4=Red/blue 5=Green 6=Blue 7=Grey/pink 8=White/green 9=White/yellow 10=White/gray 11=Black 12=Yellow/green 13=Yellow/brown 14=Brown/green 15=White 16=Yellow 17=Pink 18=Gray/brown 19=Brown	16x0.5(64 x φ 0.10)	Φ 11.6 PUR

xx-Standard cable available in 2-meter(2) 5-meter(5),and 10-meter.  
Other cable length or cable specifications on request.

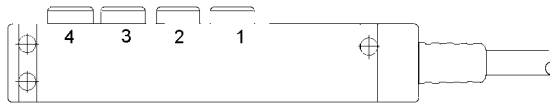
# DISTRIBUTION BOXES **DM8 SERIES** INDEX



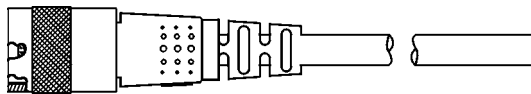
H-112~H-117



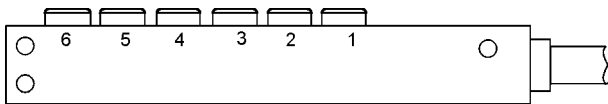
H-118~H120



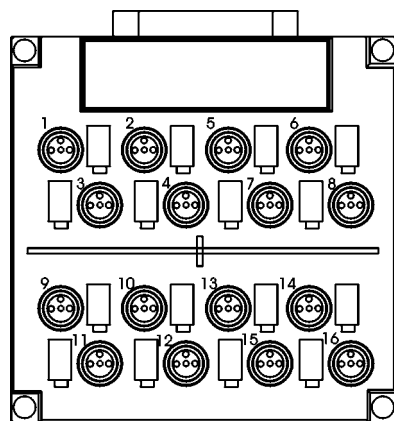
H-121~H-123



H-124~H-125



H-126~H-131

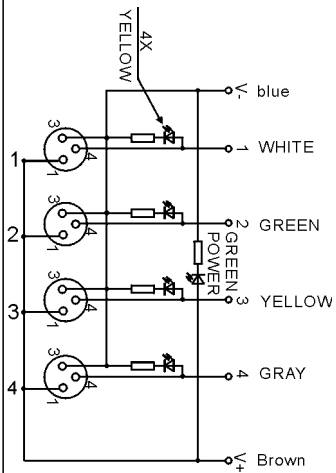


H-132~H-133

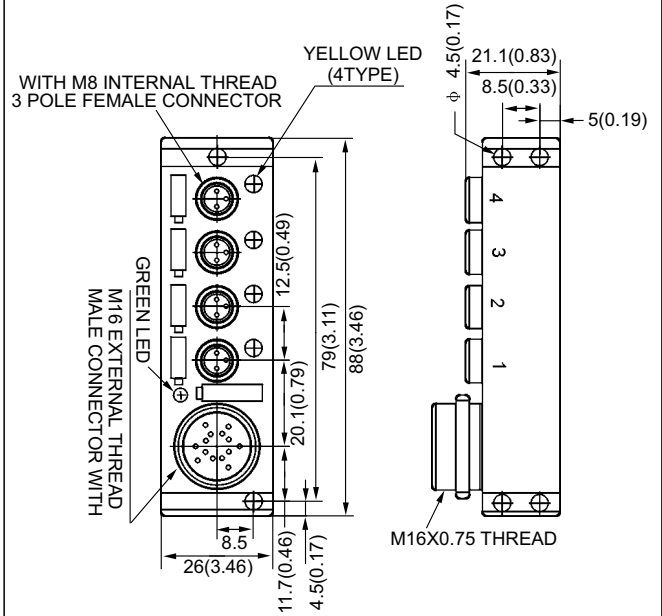
# DISTRIBUTION BOXES(DM8-SERIES)

## Mechanicals

FIG1

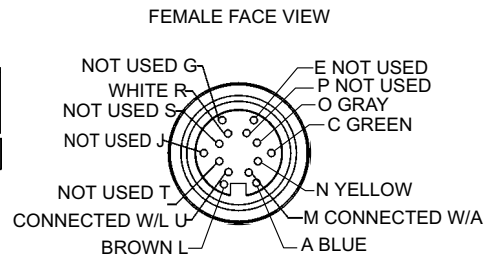
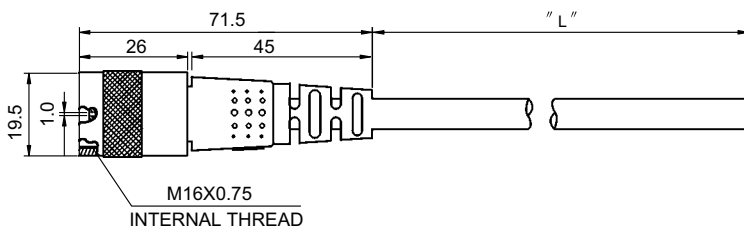


DM8C4-3/3PAS5



## Control cable mechanicals

FIG5



4 PORTS



# DISTRIBUTION BOXES (DM8-SERIES)

## Description

Top mount, connector with integral home run connector  
 Simplifies wiring installation-integral home run connector, allows for top or side entry of threaded 3p male cordsets connecting to ports for use with 3-wire PNP sensors or 24V DC actuators

## Technical Data

<b>1. Application Class:</b>	-13° TO 194° F (-25° TO 90° C)	<b>4. Home run connector cabling</b>	
<b>2. Mechanical</b>		Cable jacket:	Black PUR/PVC composite, BLACK PUR
Insert:	Thermoplastic polyester	<b>4Ports</b>	<b>6Ports</b>
Housing:	PBT	V(+) and V(-):	2x0.75mm <sup>2</sup> 2x0.75mm <sup>2</sup> 2x0.75mm <sup>2</sup> 2x0.75mm <sup>2</sup>
Receptacle housing:	Nickel-plated brass	Control:	4x0.34mm <sup>2</sup> 6x0.34mm <sup>2</sup> 8x0.34mm <sup>2</sup> Outer
ID Label:	ABS	<b>5. Stranding</b>	
O-Ring:	Viton	V(+) and V(-):	95x0.1mm 85x0.1mm 95x0.1mm 95x0.1mm
<b>3. Electrical</b>		Control:	42x0.1mm 42x0.1mm 42x0.1mm 42x0.1mm
Voltage rating:	10-30VDC	Diameter:	PUR:0.28" (7mm)
Amperage:	2A max/port;6A total per mpis unit	<b>6. Stranding</b>	
Indicating lights:	Green LED-power;Yellow LED-function	Protection:	IP 68
Average LED life:	100,000 Hours		

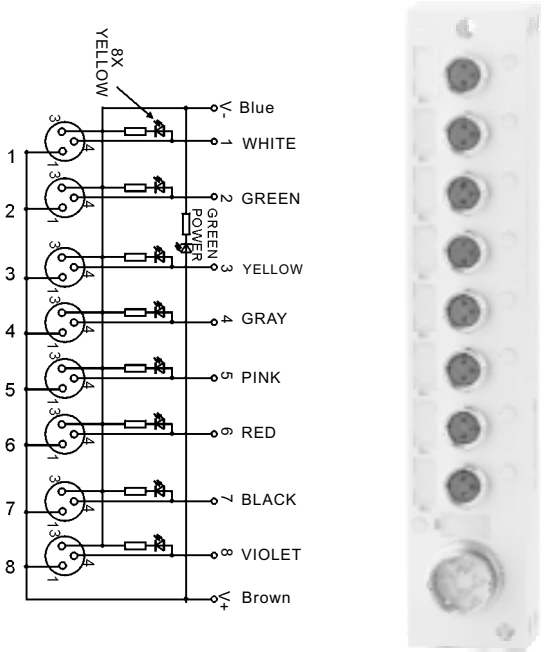
## Order Information

Part Number	Face View Outlets	Face View of Male Plug	Wiring Diagram		FIG
			Outlet Pinon Board Connector		
DM8C4-3/3PAS5			1= white 2= green 3= yellow 4= gray 5= not used 6= not used 7= not used	8= not used 9= not used 10= not used V+11= connected w/l V+12= brown V-13= connected w/a V-14= blue	5
DM8C4-3/3PAS10					
DM8C6-3/3PAS5			1= white 2= green 3= yellow 4= gray 5= pink 6= red 7= not used	8= not used 9= not used 10= not used V+11= connected w/l V+12= brown V-13= connected w/a V-14= blue	6
DM8C6-3/3PAS10					

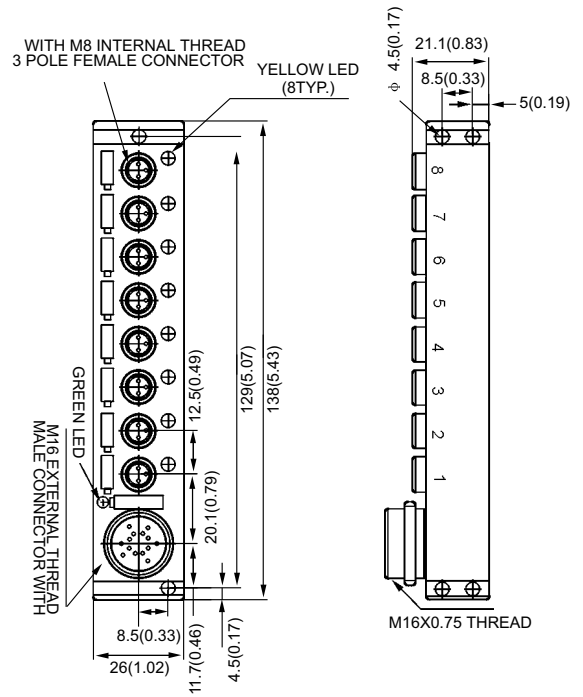
# DISTRIBUTION BOXES(DM8-SERIES)

## Mechanicals

FIG3

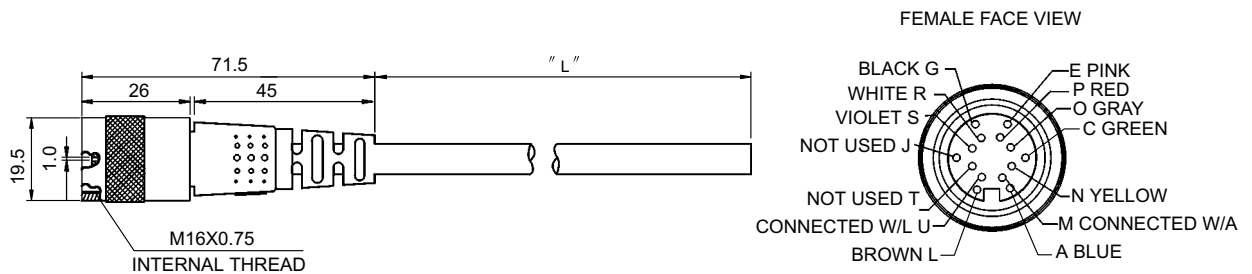


DM8C8-3/3PAS5



## Control cable mechanicals

FIG7



8 PORTS





# DISTRIBUTION BOXES (DM8-SERIES)

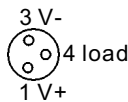
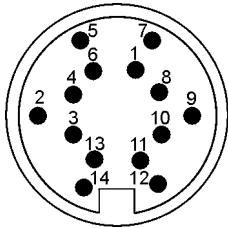
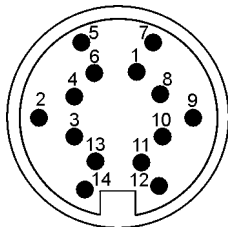
## Description

Top mount, connector with integral home run connector  
 Simplifies wiring installation-integral home run connector, allows for top or side entry of threaded 3p male cordsets connecting to ports for use with 3-wire PNP sensors or 24V DC actuators

## Technical Data

<b>1. Application Class:</b>	-13° TO 194° F (-25° TO 90° C)	<b>4. Home run connector cabling</b>	
<b>2. Mechanical</b>		Cable jacket:	Black PUR/PVC composite, BLACK PUR
Insert:	Thermoplastic polyester	<b>4Ports</b>	<b>6Ports</b>
Housing:	PBT	V(+) and V(-):	2x0.75mm <sup>2</sup> 2x0.75mm <sup>2</sup> 2x0.75mm <sup>2</sup> 2x0.75mm <sup>2</sup>
Receptacle housing:	Nickel-plated brass	Control:	4x0.34mm <sup>2</sup> 6x0.34mm <sup>2</sup> 8x0.34mm <sup>2</sup> Outer
ID Label:	ABS	<b>5. Stranding</b>	
O-Ring:	Viton	V(+) and V(-):	95x0.1mm 85x0.1mm 95x0.1mm 95x0.1mm
<b>3. Electrical</b>		Control:	42x0.1mm 42x0.1mm 42x0.1mm 42x0.1mm
Voltage rating:	10-30VDC	Diameter:	PUR:0.28" (7mm)
Amperage:	2A max/port;6A total per mpis unit	<b>6. Stranding</b>	
Indicating lights:	Green LED-power;Yellow LED-function	Protection:	IP 68
Average LED life:	100,000 Hours		

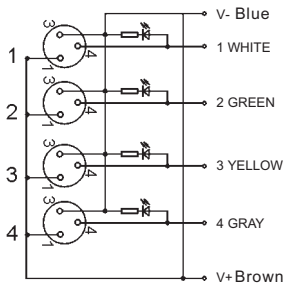
## Order Information

Part Number	Face View Outlets	Face View of Male Plug	Wiring Diagram	FIG
			Outlet Pinon Board Connector	
DM8C8-3/3PAS5			1= white 2= green 3= yellow 4= gray 5= pink 6= red 7= black 8= violet 9= not used 10= not used V+11= connected w/l V+12= brown V-13= connected w/a V-14= blue	7
DM8C8-3/3PAS10			1= white 2= green 3= yellow 4= gray 5= pink 6= red 7= black 8= violet 9= gray/pink 10= red/blue V+11= connected w/l V+12= brown V-13= connected w/a V-14= blue	8
DM8C10-3/3PAS5				
DM8C10-3/3PAS10				

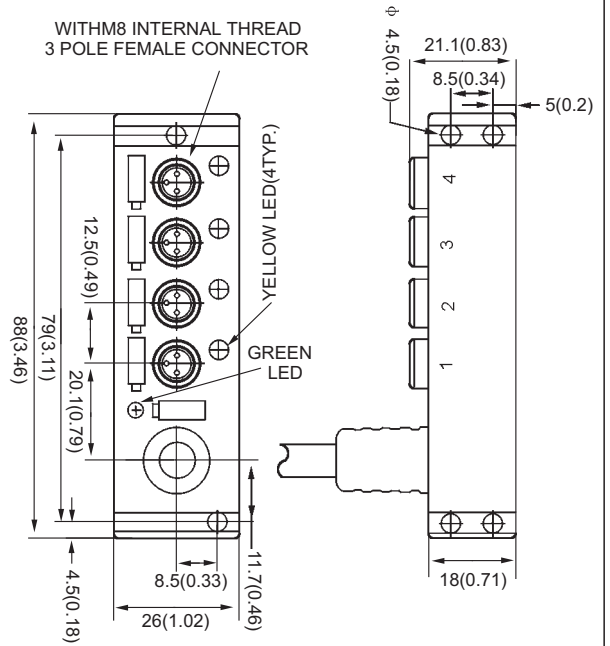
# DISTRIBUTION BOXES(DM8-SERIES)

## Mechanicals

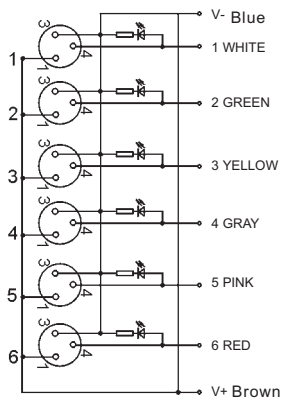
### 4 PORTS



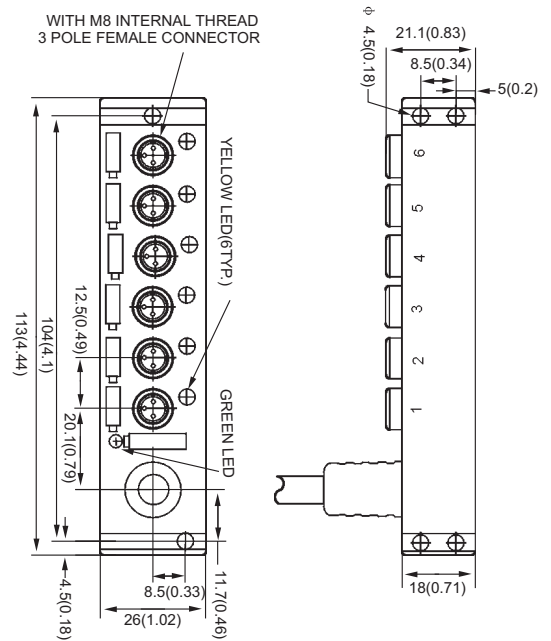
DM8C4-3/3PA-88Txx



### 6 PORTS



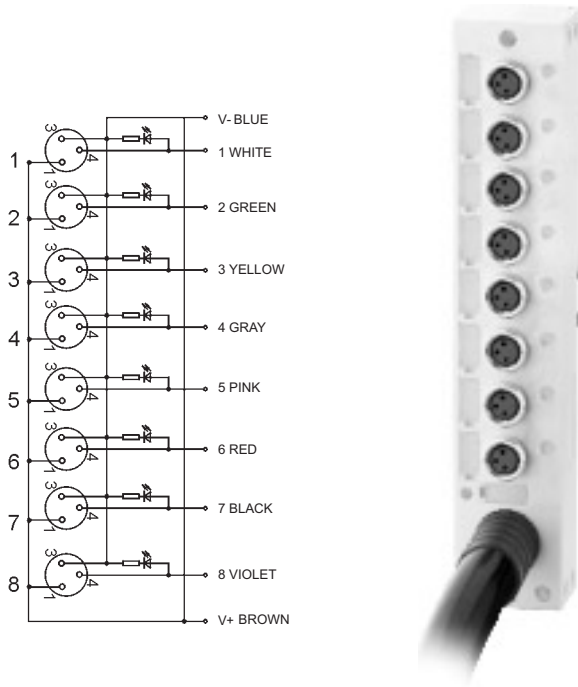
DM8C6-3/3PA-90Txx



# DISTRIBUTION BOXES(DM8-SERIES)

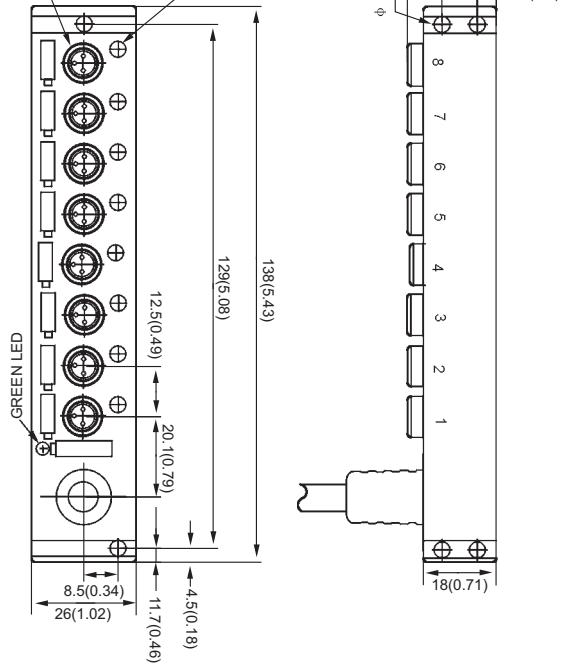
## Mechanicals

### 8 PORTS

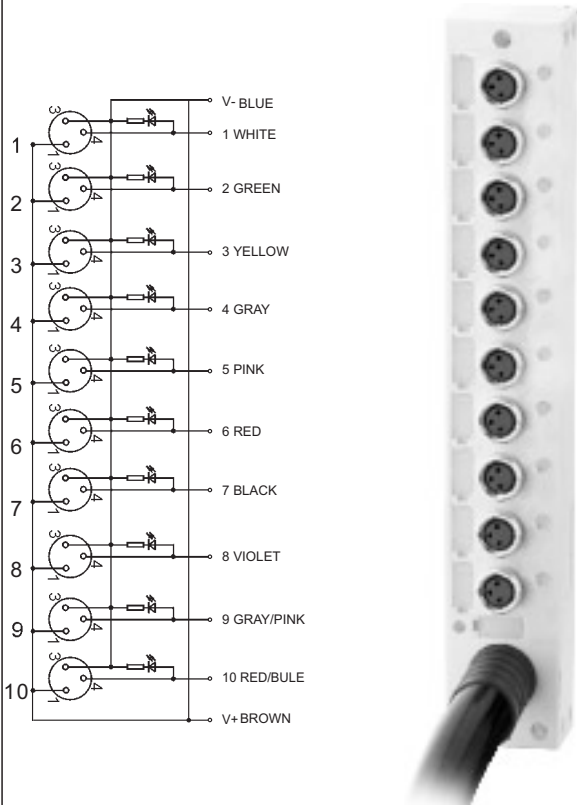


DM8C8-3/3PA-92Txx

WITH M8 INTERNAL THREAD  
3 POLE FEMALE CONNECTOR  
YELLOW LED(8TYP.)

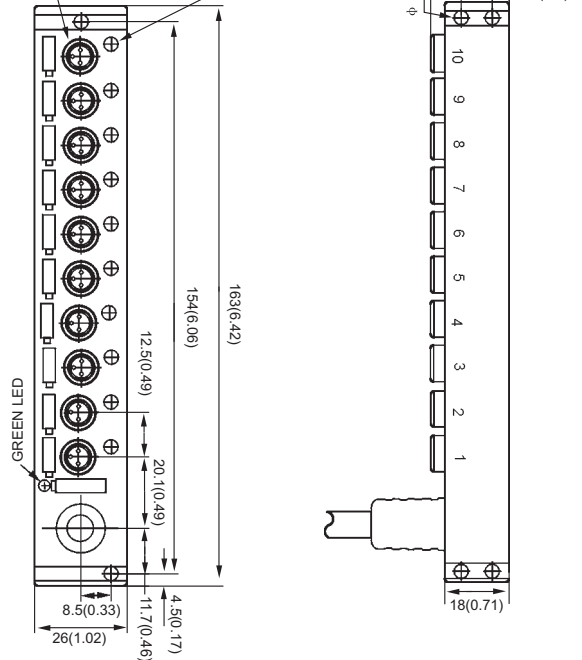


### 10 PORTS



DM8C10-3/3PA-94Txx

3 POLE FEMALE CONNECTOR  
WITH M8 INTERNAL THREAD  
YELLOW LED(10TYP.)



# DISTRIBUTION BOXES (DM8-SERIES)

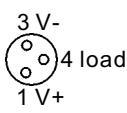
## Description

Simplifies wiring installation-integrated molded PVC or PUR home run cable  
 Allows for top or side entry of threaded 3P male cordsets connecting to ports  
 For use with 3-wire PNP sensors or 24V DC actuators

## Technical Data

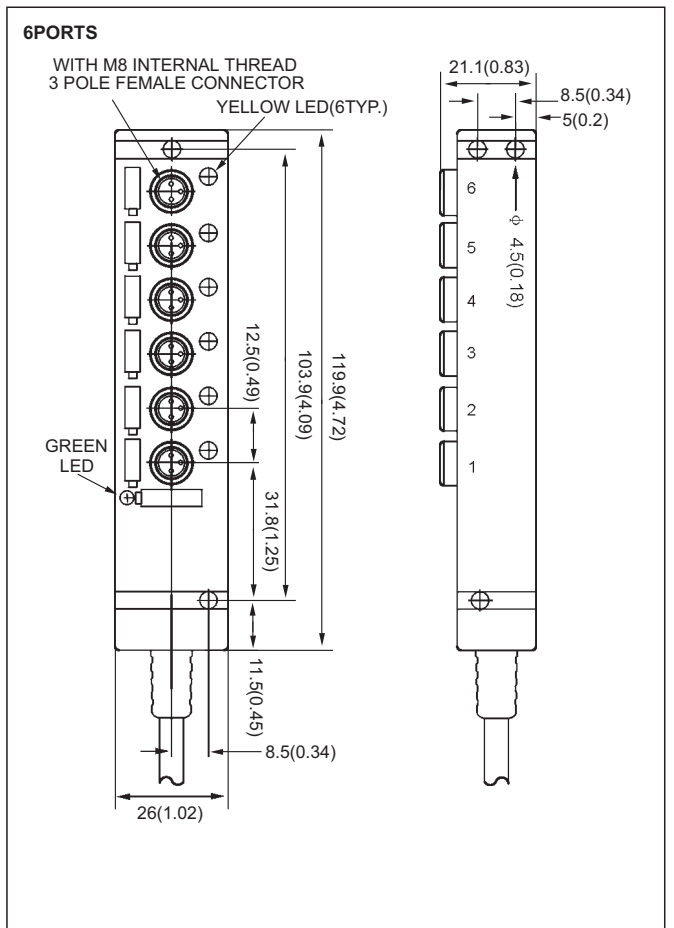
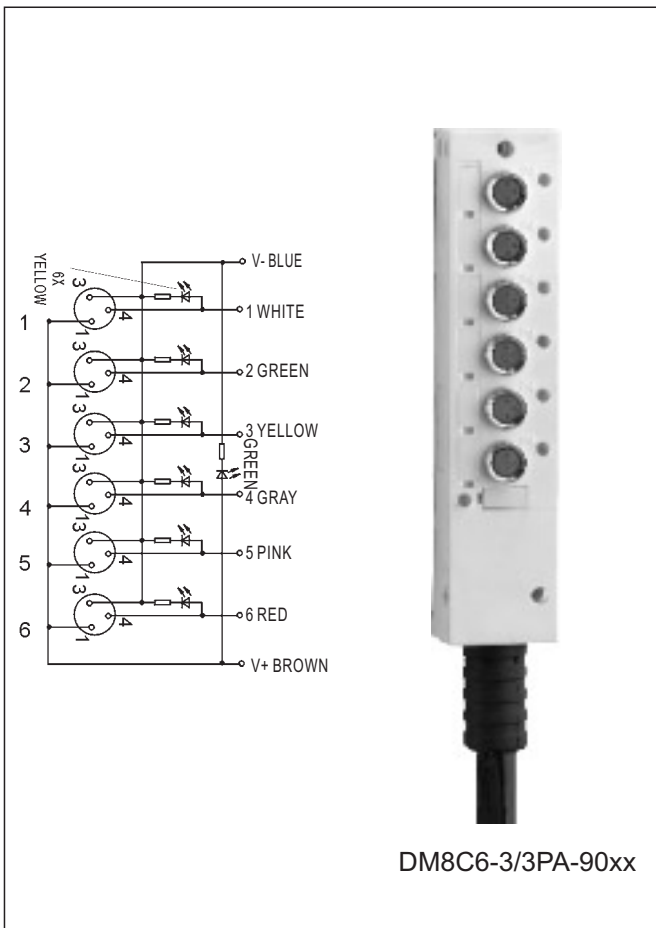
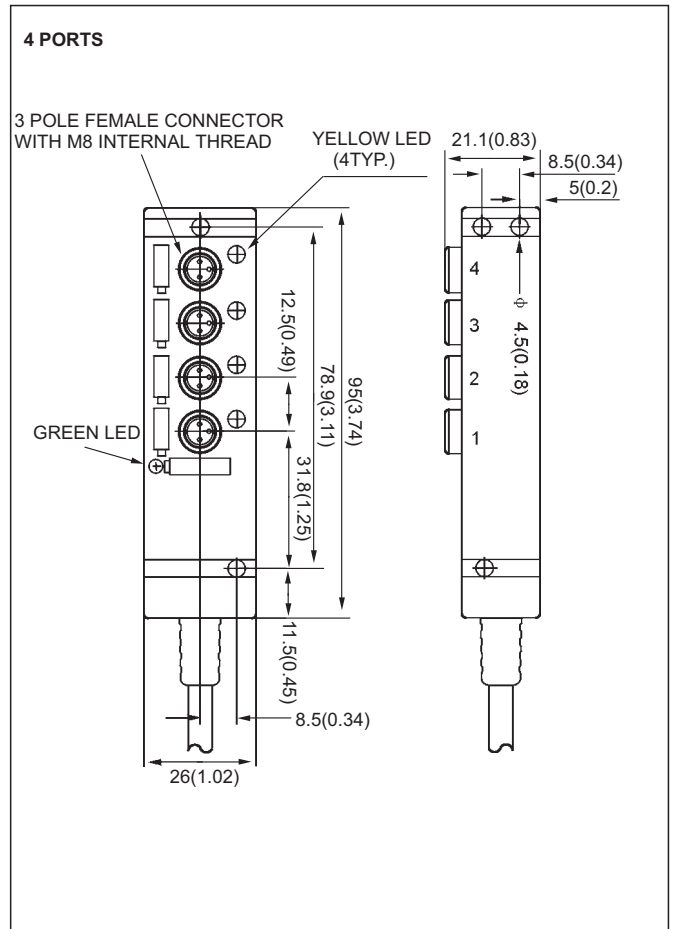
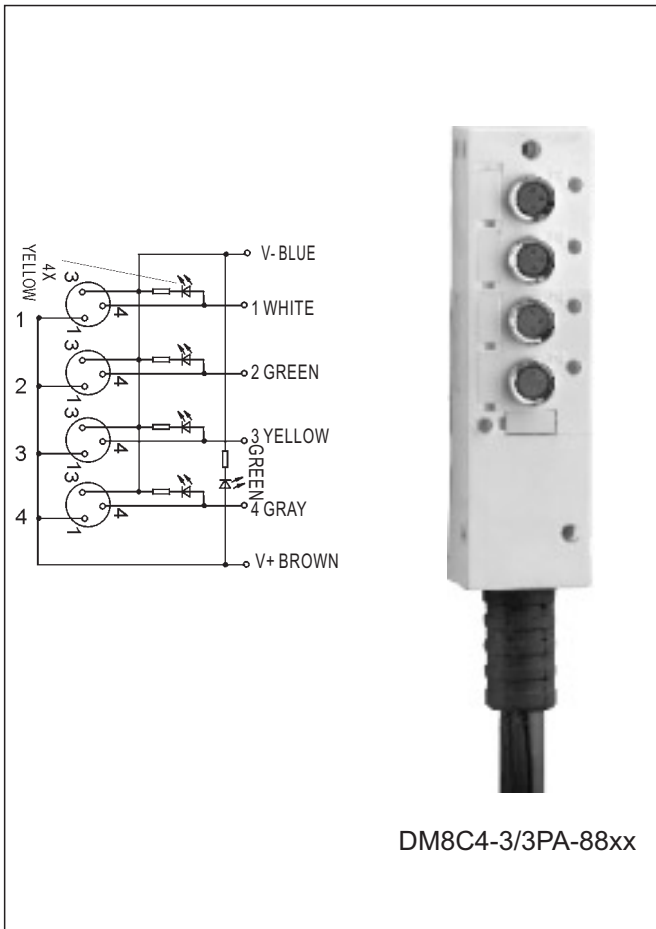
<b>1. Application Class:</b>	-13° TO 194° F (-25° TO 90° C)	<b>4. Home run connector cabling</b>	
<b>2. Mechanical</b>		Cable jacket:	Black PUR/PVC composite, BLACK PUR
Insert:	Thermoplastic polyester	<b>4Ports</b>	<b>6Ports</b>
Housing:	PBT	V(+) and V(-):	2x0.75mm <sup>2</sup> 2x0.75mm <sup>2</sup> 2x0.75mm <sup>2</sup> 2x0.75mm <sup>2</sup>
Receptacle housing:	Nickel-plated brass	Control:	4x0.34mm <sup>2</sup> 6x0.34mm <sup>2</sup> 8x0.34mm <sup>2</sup> 10x0.34mm <sup>2</sup>
ID Label:	ABS	<b>5. Stranding</b>	
O-Ring:	Viton	V(+) and V(-):	95x0.1mm 85x0.1mm 95x0.1mm 95x0.1mm
<b>3. Electrical</b>		Control:	42x0.1mm 42x0.1mm 42x0.1mm 42x0.1mm
Voltage rating:	10-30VDC	Diameter:	PUR:0.28" (7mm)
Amperage:	2A max/port;6A total per mpis unit	<b>6. Stranding</b>	
Indicating lights:	Green LED-power;Yellow LED-function	Protection:	IP 68
Average LED life:	100,000 Hours		

## Order Information

Part Number	Poles	Cable Type	Cable Type			
			Lead(mm <sup>2</sup> )	Outer Jacket		
DM8C4-3/3PA-88Txx		1= white 2= green 3= yellow 4= gray V+= brown V-= blue	V+ and V- 0.75mm <sup>2</sup>	PVC/PUR		
DM8C4-3/3PA-89Txx				PUR		
DM8C6-3/3PA-90Txx		1= white 2= green 3= yellow 4= gray 5= pink 6= red		V+= brown V-= blue	PVC/PUR	
DM8C6-3/3PA-91Txx					PUR	
DM8C8-3/3PA-92Txx		1= white 2= green 3= yellow 4= gray 5= pink 6= red 7= black		8= violet V+= brown V-= blue	Control 0.34mm <sup>2</sup>	PVC/PUR
DM8C8-3/3PA-93Txx						PUR
DM8C10-3/3PA-94Txx		1= white 2= green 3= yellow 4= gray 5= pink 6= red 7= black		8= violet 9= gray/pink 10= red/blue V+= brown V-= blue		PVC/PUR
DM8C10-3/3PA-95Txx						PUR

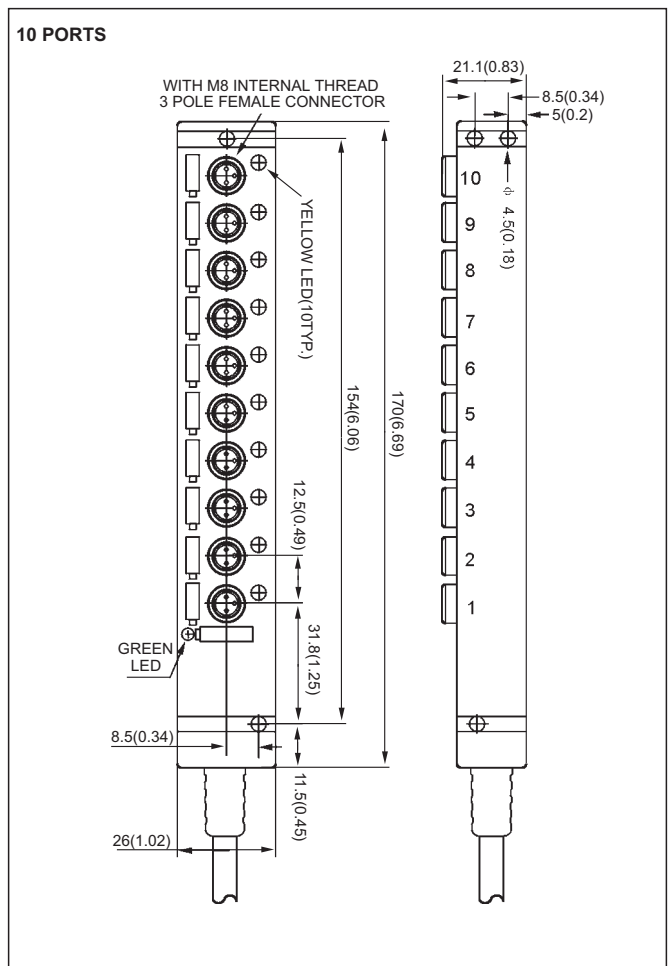
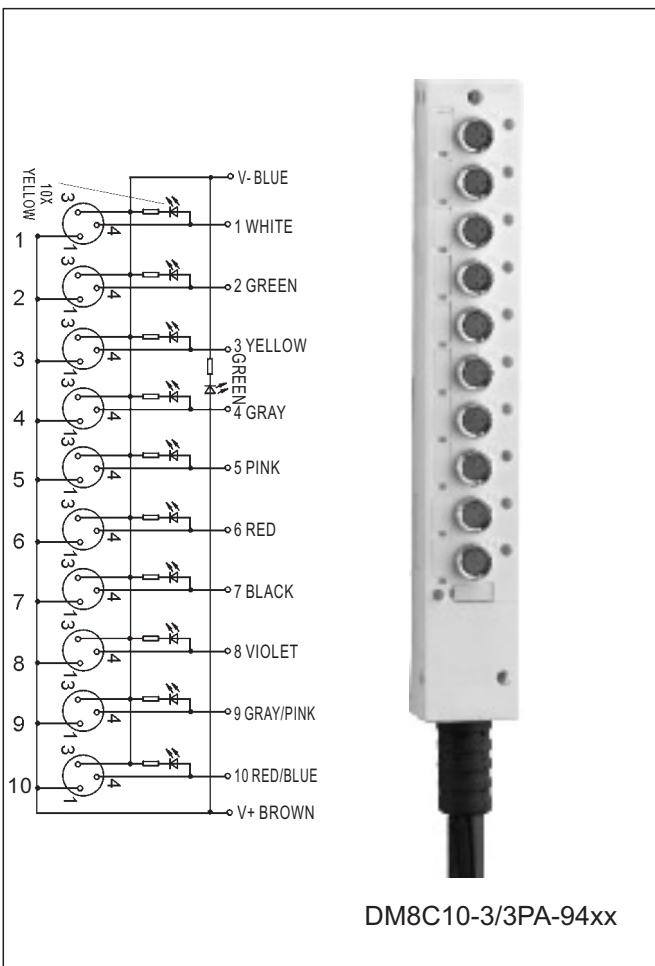
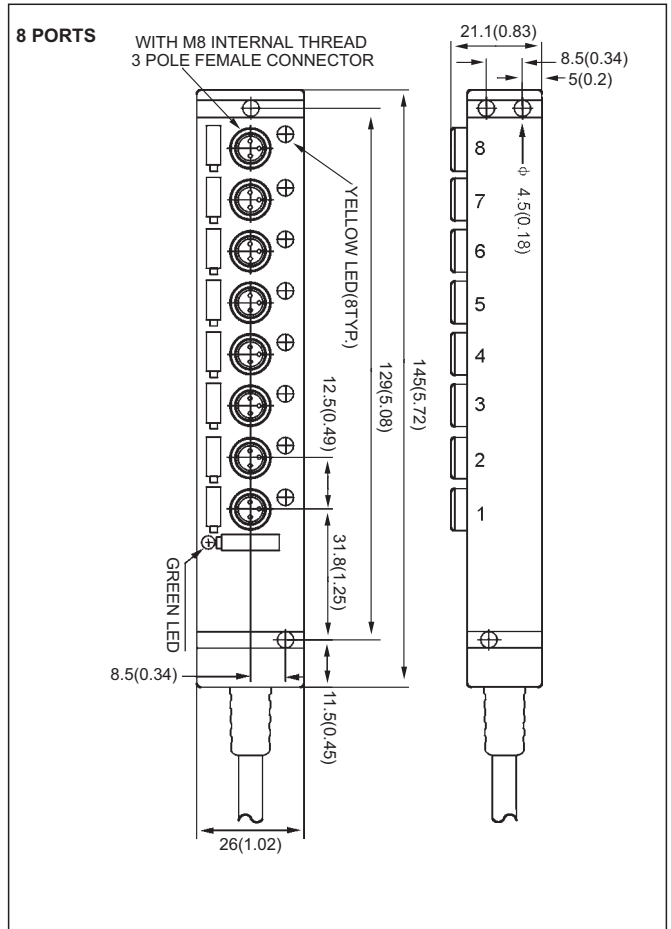
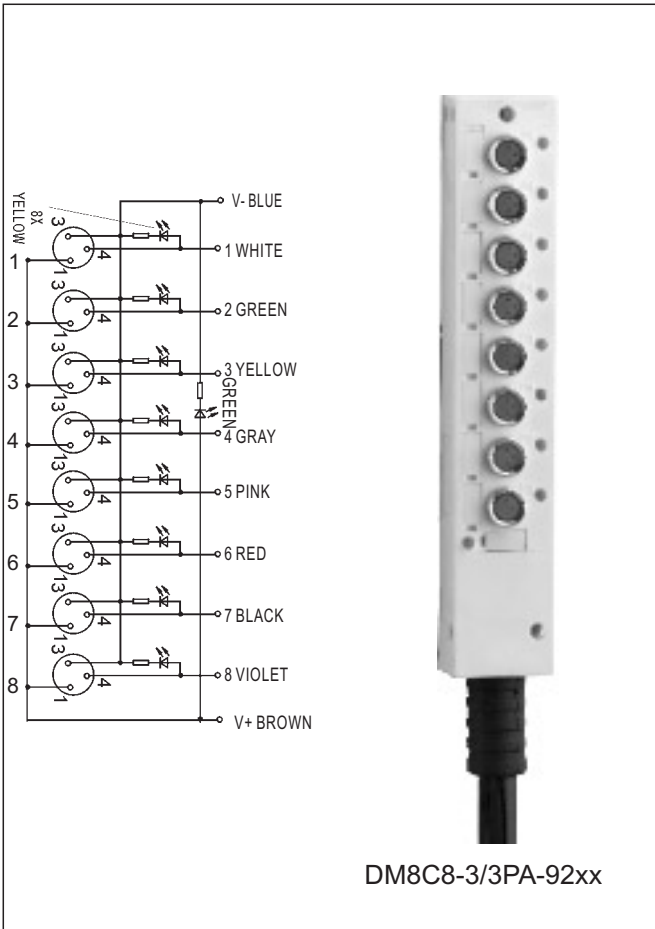
# DISTRIBUTION BOXES(DM8-SERIES)

## Mechanicals



# DISTRIBUTION BOXES(DM8-SERIES)

## Mechanicals



# DISTRIBUTION BOXES (DM8-SERIES)

## Description

Simplifies wiring installation-integrated PUR/PVC or PUR home run cable  
 Allows for top or side entry of threaded 3P male cordsets connecting to ports  
 For use with 3-wire PNP sensors or 24V DC actuators

## Technical Data

1. Application Class: -13° TO 194° F (-25° TO 90° C)

### 2. Mechanical

Insert: Thermoplastic polyester  
 Housing: PBT  
 Receptacle housing: Nickel-plated brass  
 ID Label: ABS  
 O-Ring: Viton

### 3. Electrical

Voltage rating: 10-30VDC  
 Amperage: 2A max/port; 6A total per mpis unit  
 Indicating lights: Green LED-power; Yellow LED-function  
 Average LED life: 100,000 Hours

### 4. Home run connector cabling

Cable jacket: Black PUR/PVC composite, BLACK PUR

	4Ports	6Ports	8Ports	10Ports
V(+) and V(-):	2x0.75mm <sup>2</sup>	2x0.75mm <sup>2</sup>	2x0.75mm <sup>2</sup>	2x0.75mm <sup>2</sup>
Control:	4x0.34mm <sup>2</sup>	6x0.34mm <sup>2</sup>	8x0.34mm <sup>2</sup>	10x0.34mm <sup>2</sup>

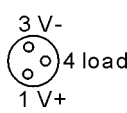
### 5. Stranding

	4Ports	6Ports	8Ports	10Ports
V(+) and V(-):	95x0.1mm	85x0.1mm	95x0.1mm	95x0.1mm
Control:	42x0.1mm	42x0.1mm	42x0.1mm	42x0.1mm
Diameter:	PUR:0.28" (7mm)			

### 6. Stranding

Protection: IP 68

## Order Information

Part Number	Poles	Cable Type	Cable Type			
			Lead(mm <sup>2</sup> )	Outer Jacket		
DM8C4-3/3PA-88xx		1= white 2= green 3= yellow 4= gray V+= brown V-= blue	V+ and V- 0.75mm <sup>2</sup>	PVC/PUR		
DM8C4-3/3PA-89xx				PUR		
DM8C6-3/3PA-90xx		1= white 2= green 3= yellow 4= gray 5= pink 6= red		V+= brown V-= blue	PVC/PUR	
DM8C6-3/3PA-91xx					PUR	
DM8C8-3/3PA-92xx		1= white 2= green 3= yellow 4= gray 5= pink 6= red 7= black		8= violet V+= brown V-= blue	Control 0.34mm <sup>2</sup>	PVC/PUR
DM8C8-3/3PA-93xx						PUR
DM8C10-3/3PA-94xx		1= white 2= green 3= yellow 4= gray 5= pink 6= red 7= black		8= violet 9= gray/pink 10= red/blue V+= brown V-= blue		PVC/PUR
DM8C10-3/3PA-95xx						PUR



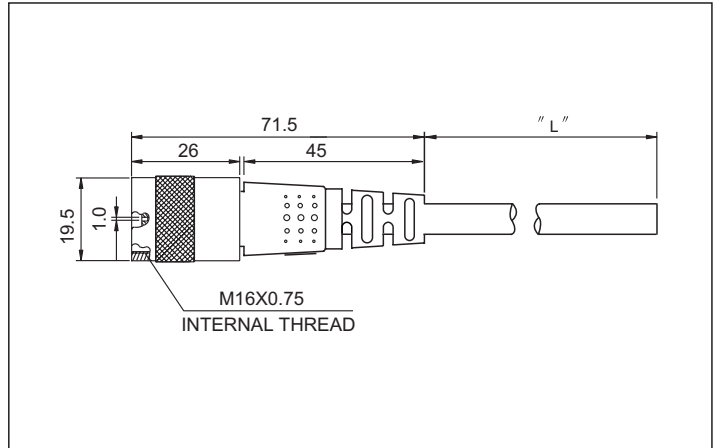
# QUICK DISCONNECT CABLE---DISTRIBUTION BOXES(DM8-SERIES)

## View



- With locknut and Moulded cable
- Black

## Dimensional data



## Technical Data

Application Class: GNA acc. to DIN 40040  
(-40 °C / +90 °C / ≤ 100%)

Moulded Body: TPU, self-extinguishing

Nominal Power: 2+3poles 12A/ 4+5poles 9A

Nominal Voltage: 250VAC

Body: TPU, self-extinguishing

locking Nut: Nickel plated brass

Contact: CuZn, 3 microns silver-plated and 0.25 microns gold-plated

Insertion Force/Contact: ≤ 3N

Withdrawal Force/Contact: ≥ 1N

Protection: IP 68

Water Pressure Resistance: 10 bar

Insulation Group: C acc.to VDE 0110

Contact Resistance: ≤ 5m Ω

Test Voltage: 2+3poles, 2.5 KV eff./60s.

4+5poles, 1.5 KV eff./60s.

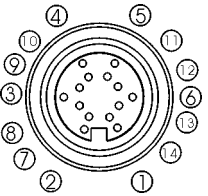
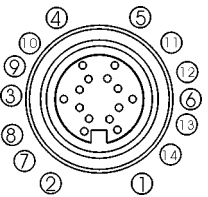
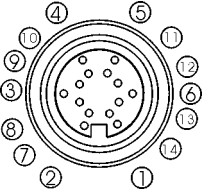
Insulation Resistance: >10<sup>9</sup> Ω

## Catalog Number

Part-No	Poles	Face View female	Color Code	Conductors		Outer Jacket	
				Guage	Stranding	φ mm	Material
Z-FS8KAV772	8		1=white 2=brown 3=green 4=yellow 5=grey 6=pink 7=blue 8=red	0.34mm <sup>2</sup>	40 x φ0.10	8.0	PVC
				0.75mm <sup>2</sup> (Brown&Blue)	95 x φ0.10 (Brown&Blue)		
Z-FS14/8KAV1062	14		1=blue 2=brown 3=not used 4=not used 5=not used 6=green 7=connected w/l 8=not used 9=not used 10=white 11=not used 12=gray 13=yellow 14=connected w/a	0.34mm <sup>2</sup>	40 x φ0.10	9.5	PVC
				0.75mm <sup>2</sup> (Brown&Blue)	95 x φ0.10 (Brown&Blue)		

Standard length: 2.0 m and 5.0 m. Other cable length or cable specifications on request.

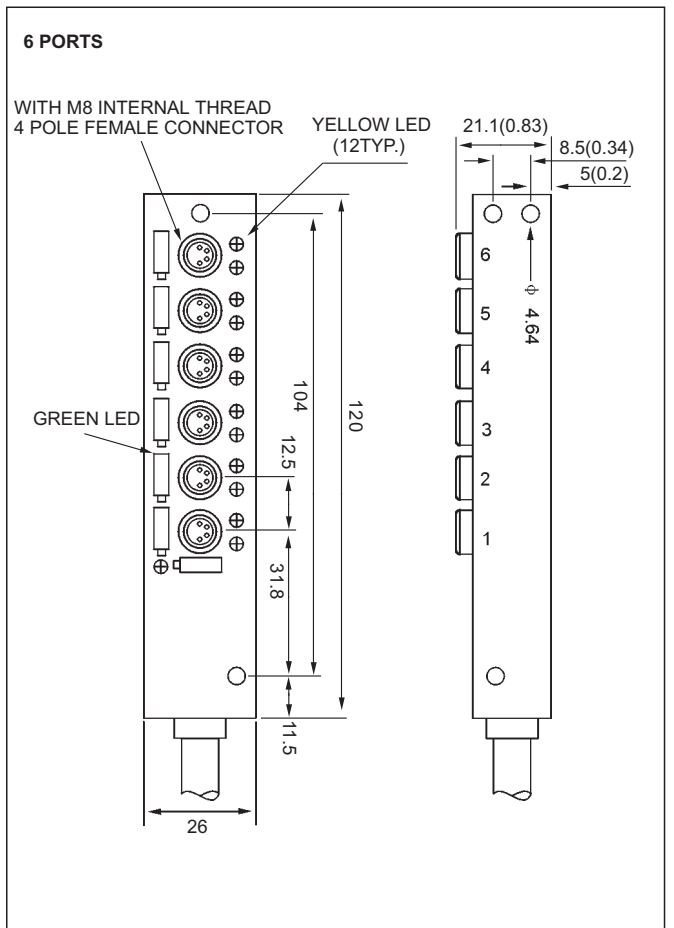
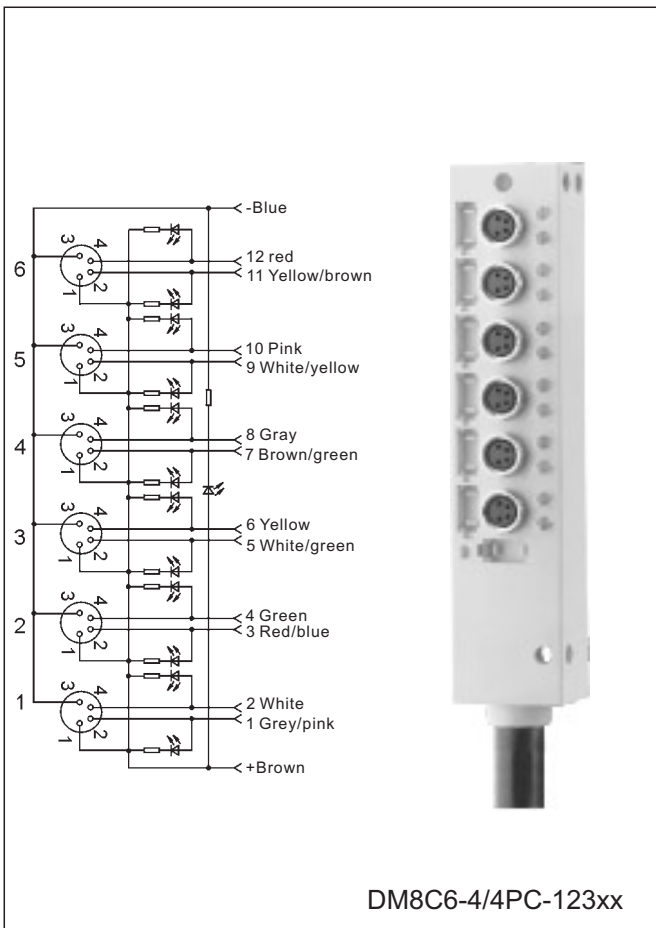
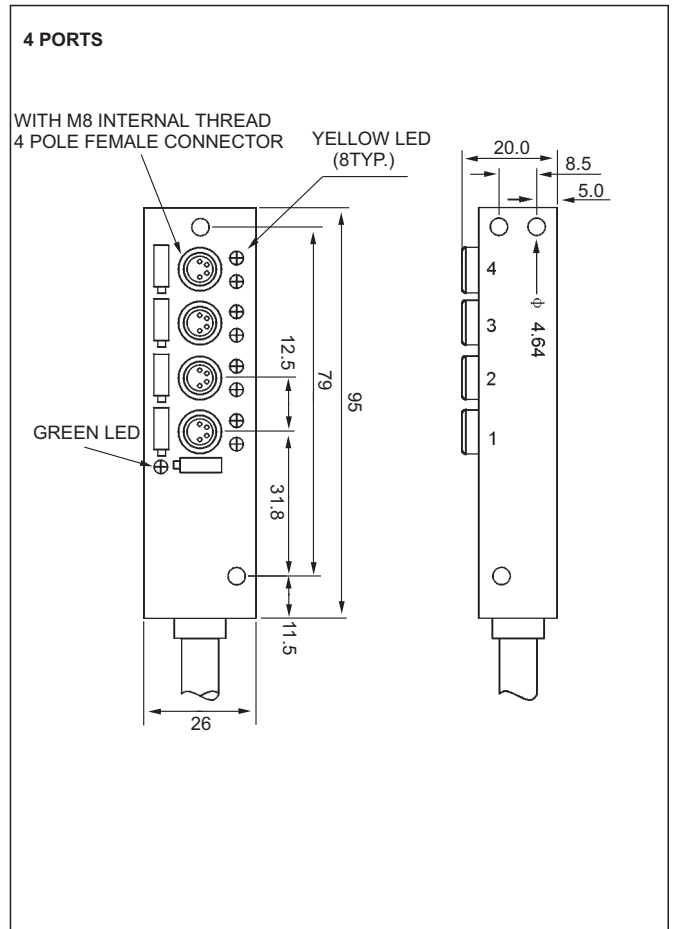
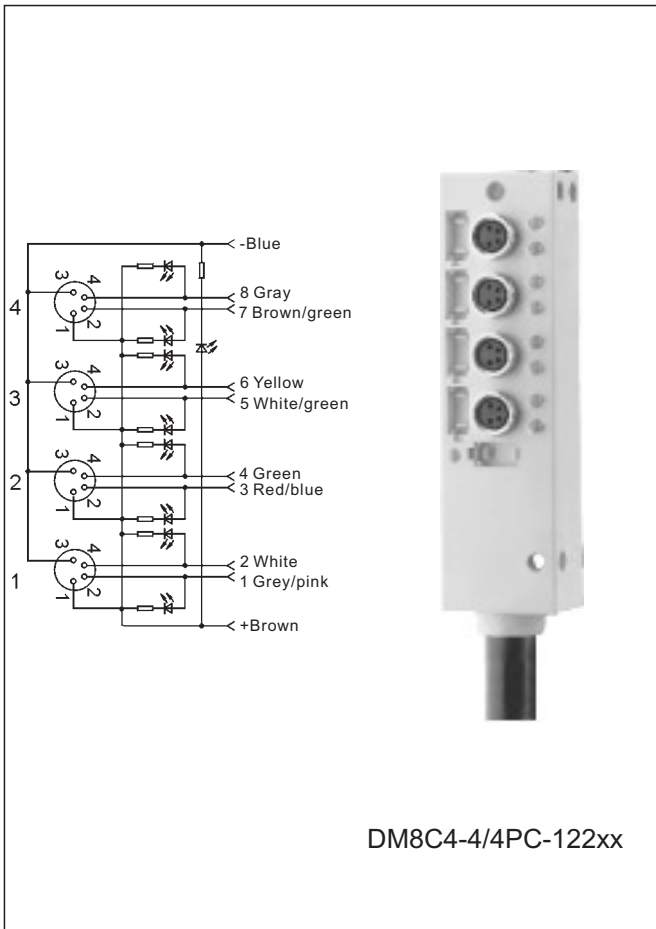
# QUICK DISCONNECT CABLE---DISTRIBUTION BOXES(DM8-SERIES)

Catalog Number							
Part-No	Poles	Face View female	Color Code	Conductors		Outer Jacket	
				Guage	Stranding	φ mm	Material
Z-FS14/10KAV1072	14		1=blue 2=brown 3=not used 4=not used 5=pink 6=green 7=connected w/ 8=not used 9=not used 10=white 11=red 12=gray 13=yellow 14=connected w/a	0.34mm <sup>2</sup>	40 x φ0.10	9.5	PVC
				0.75mm <sup>2</sup> (Brown&Blue)	95 x φ0.10 (Brown&Blue)		
Z-FS14/12KAV1082	14		1=blue 2=brown 3=not used 4=black 5=pink 6=green 7=connected w/ 8=not used 9=violet 10=white 11=red 12=gray 13=yellow 14=connected w/a	0.34mm <sup>2</sup>	40 x φ0.10	9.5	PVC
				0.75mm <sup>2</sup> (Brown&Blue)	95 x φ0.10 (Brown&Blue)		
Z-FS14/13KAV1172	14		1=blue 2=brown 3=gray/pink 4=black 5=pink 6=green 7=connected w/ 8=red/blue 9=violet 10=white 11=red 12=gray 13=yellow 14=connected w/a	0.34mm <sup>2</sup>	40 x φ0.10	9.5	PVC
				0.75mm <sup>2</sup> (Brown&Blue)	95 x φ0.10 (Brown&Blue)		

Standard length: 2.0 m and 5.0 m. Other cable length or cable specifications on request.

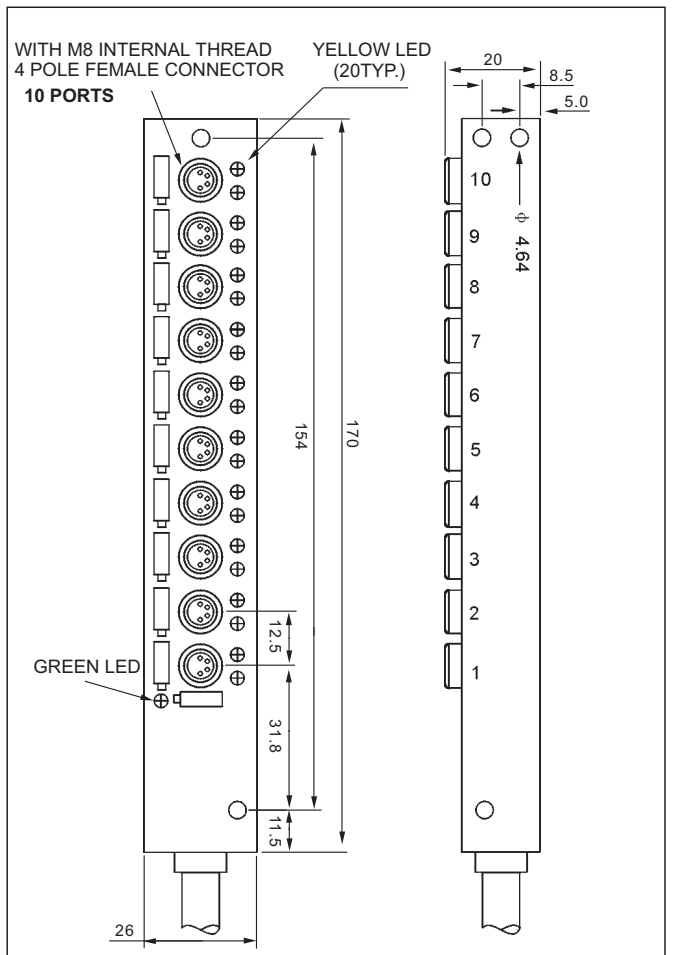
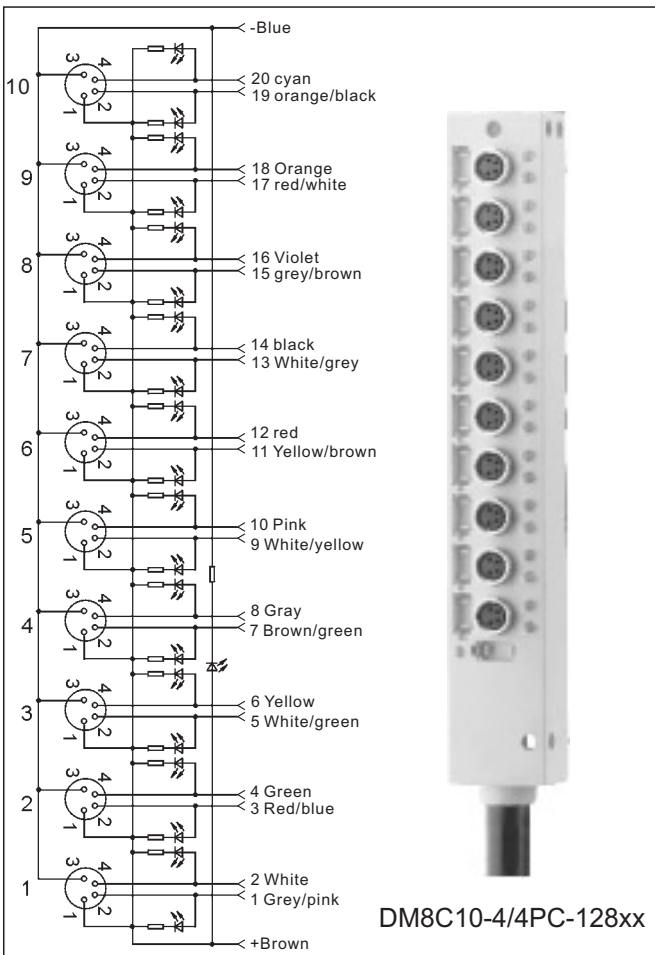
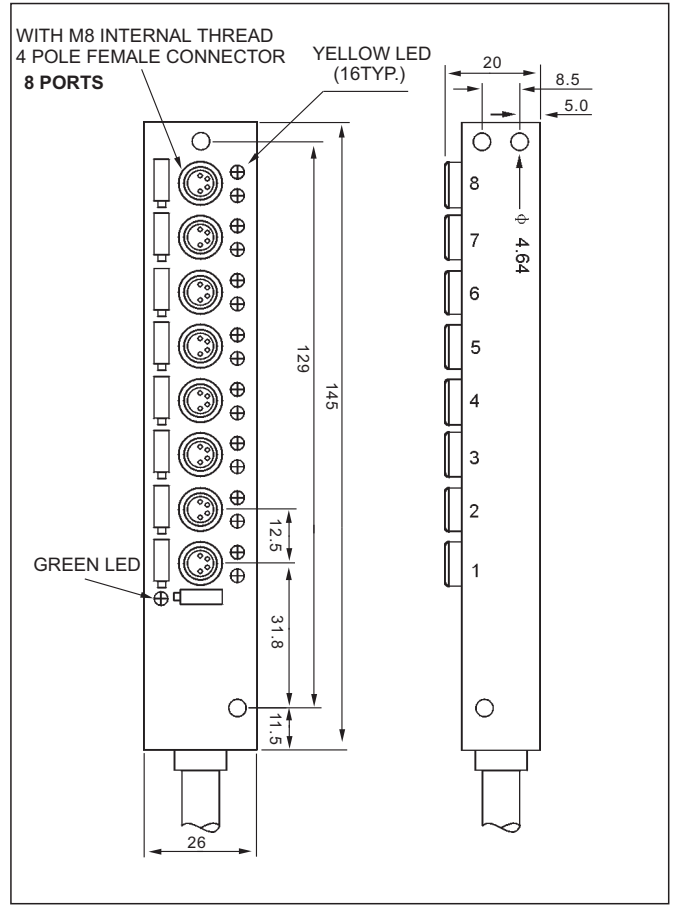
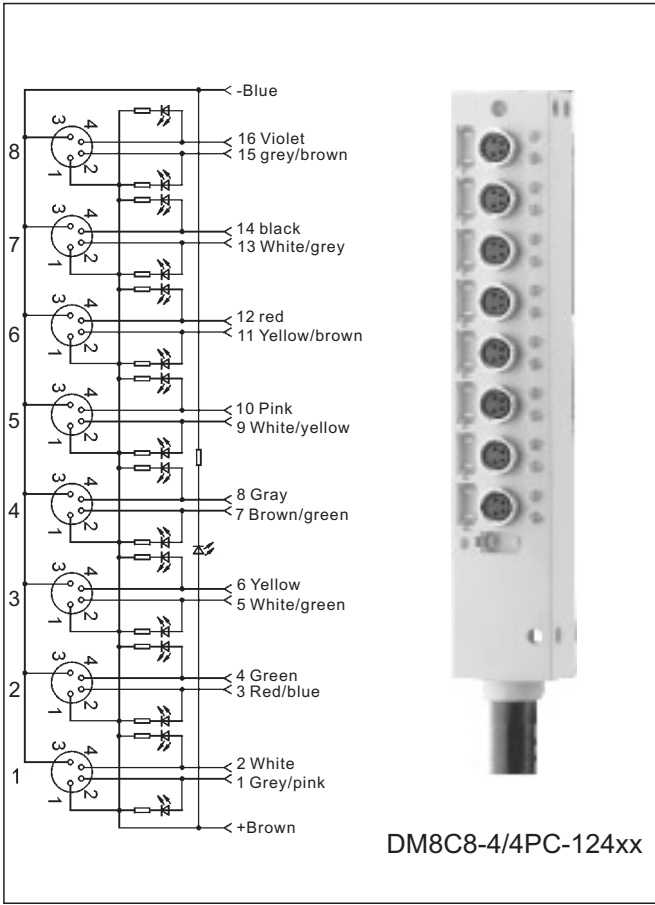
# DISTRIBUTION BOXES(DM8-4PIN PNP SERIES)

## Mechanicals



# DISTRIBUTION BOXES(DM8-4PIN PNP SERIES)

## Mechanicals



# DISTRIBUTION BOXES(DM8-4PIN PNP SERIES)

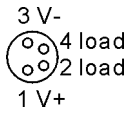
## Description

Simplifies wiring installation-integrated molded PVC or PUR home run cable  
 Allows for top or side entry of threaded 4P male cordsets connecting to ports  
 For use with 4-wire PNP sensors or 24V DC actuators

## Technical Data

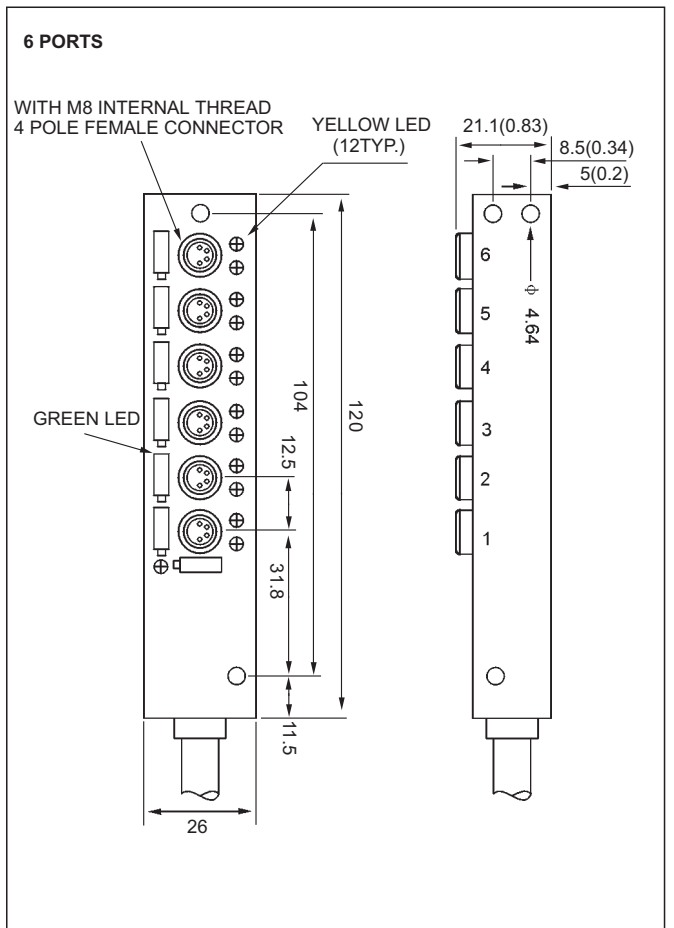
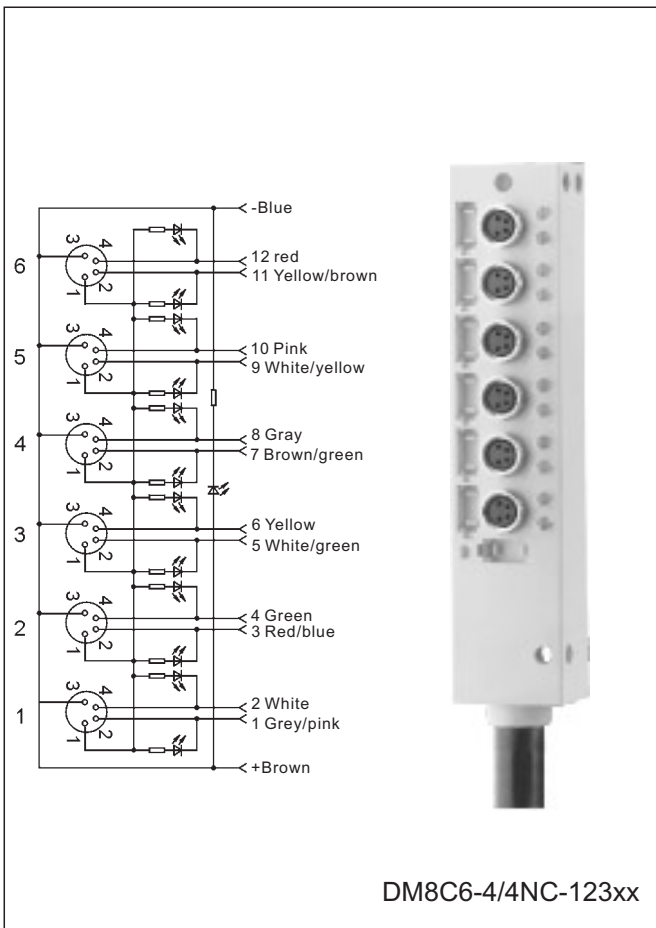
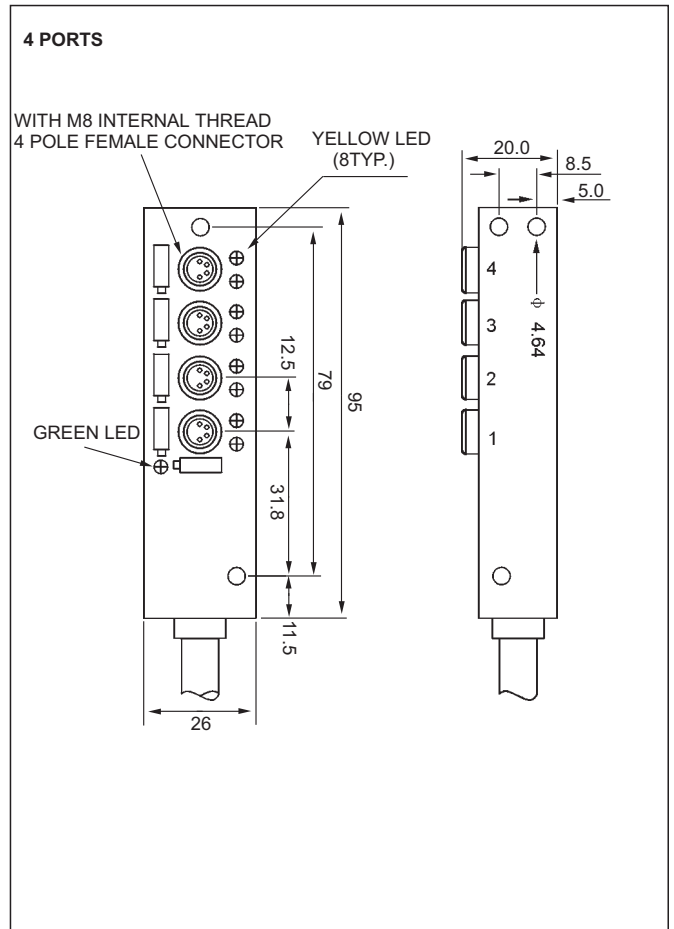
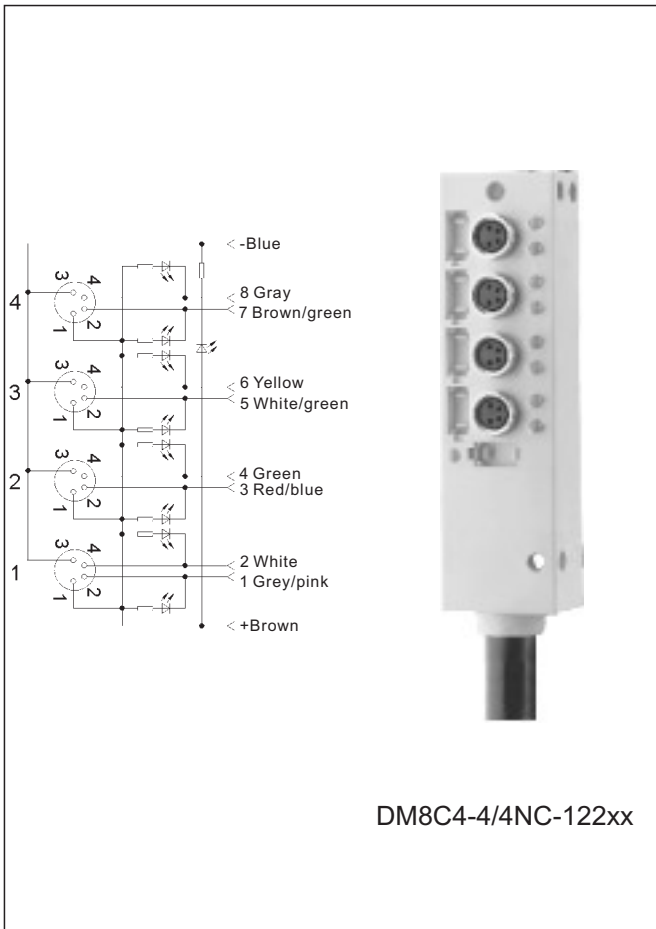
<p><b>1. Application Class:</b> -5° TO 194° F(-25° TO 90° C)</p> <p><b>2. Mechanical</b></p> <p>Insert: Thermoplastic polyester              Housing: PBT              Receptacle housing: Nickel-plated brass              ID Label: ABS              O-Ring: Viton</p> <p><b>3. Electrical</b></p> <p>Voltage rating: 300V              Amperage: 2A max/port;6A total per mpis unit              Indicating lights: Green LED-power;Yellow LED-function              Average LED life: 100,000 Hours</p>	<p><b>4. Home run connector cabling</b></p> <p>Cable jacket: Black PUR/PVC composite, BLACK PUR</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;"></th> <th style="width: 12.5%;">4Ports</th> <th style="width: 12.5%;">6Ports</th> <th style="width: 12.5%;">8Ports</th> <th style="width: 12.5%;">10Ports</th> </tr> </thead> <tbody> <tr> <td>V(+) and V(-):</td> <td>2x0.75mm<sup>2</sup></td> <td>2x0.75mm<sup>2</sup></td> <td>2x0.75mm<sup>2</sup></td> <td>2x0.75mm<sup>2</sup></td> </tr> <tr> <td>Control:</td> <td>4x0.34mm<sup>2</sup></td> <td>6x0.34mm<sup>2</sup></td> <td>8x0.34mm<sup>2</sup></td> <td>10x0.34mm<sup>2</sup></td> </tr> </tbody> </table> <p><b>5. Stranding</b></p> <p>V(+) and V(-): 42x0.15mm 42x0.15mm 42x0.15mm 42x0.15mm              Control: 42x0.10mm 42x0.10mm 42x0.10mm 42x0.10mm              Diameter: PUR:11.5</p> <p><b>6. Stranding</b></p> <p>Protection: IP 68</p>		4Ports	6Ports	8Ports	10Ports	V(+) and V(-):	2x0.75mm <sup>2</sup>	2x0.75mm <sup>2</sup>	2x0.75mm <sup>2</sup>	2x0.75mm <sup>2</sup>	Control:	4x0.34mm <sup>2</sup>	6x0.34mm <sup>2</sup>	8x0.34mm <sup>2</sup>	10x0.34mm <sup>2</sup>
	4Ports	6Ports	8Ports	10Ports												
V(+) and V(-):	2x0.75mm <sup>2</sup>	2x0.75mm <sup>2</sup>	2x0.75mm <sup>2</sup>	2x0.75mm <sup>2</sup>												
Control:	4x0.34mm <sup>2</sup>	6x0.34mm <sup>2</sup>	8x0.34mm <sup>2</sup>	10x0.34mm <sup>2</sup>												

## Order Information

Part Number	Poles	Cable Type	Cable Type			
			Lead(mm <sup>2</sup> )	Outer Jacket		
DM8C4-4/4PC-122xx	 <p>3 V- 4 load 2 load 1 V+</p>	1 =Grey/pink 2 =White 3 = Red/blue 4 = Green 5 = White/green 6 =Yellow 7 = Brown/green 8 = Gray V+=Brown V-=Blue Ground=yellow/green	V+ and V- 0.75mm <sup>2</sup>	PVC/PUR		
DM8C4-4/4PC-125xx				PUR		
DM8C6-4/4PC-123xx		1 = Grey/pink 2 = White 3 =Red/blue 4 =Green 5 =White/green 6 =Yellow 7 =Brown/green 8 =Gray 9 =White/yellow 10 =Pink		11 =Yellow/brown 12 =red V+=Brown V-=Blue Ground=yellow/ green	PVC/PUR	
DM8C6-4/4PC-126xx				PUR		
DM8C8-4/4PC-124xx		1 = Grey/pink 2 = White 3 = Red/blue 4 = Green 5 =White/green 6 =Yellow 7 =Brown/green 8 =Gray 9 =White/yellow 10 =Pink 11 =Yellow/brown 12 = red		13 =White/grey 14 =black 15 =grey/brown 16 =Violet V+=Brown V-=Blue Ground=yellow/ green	Control 0.34mm <sup>2</sup>	PVC/PUR
DM8C8-4/4PC-127xx				PUR		
DM8C10-4/4PC-128xx		1 = Grey/pink 2 = White 3 = Red/blue 4 = Green 5 =White/green 6 =Yellow 7 =Brown/green 8 =Gray 9 =White/yellow 10 =Pink 11 =Yellow/brown 12 = red		13 =White/grey 14 =black 15 =grey/brown 16 =Violet 17 =red/white 18 =orange 19 =orange/black 20 =cyan V+=Brown V-=Blue Ground=yellow/ green		PVC/PUR
DM8C10-4/4PC-129xx				PUR		

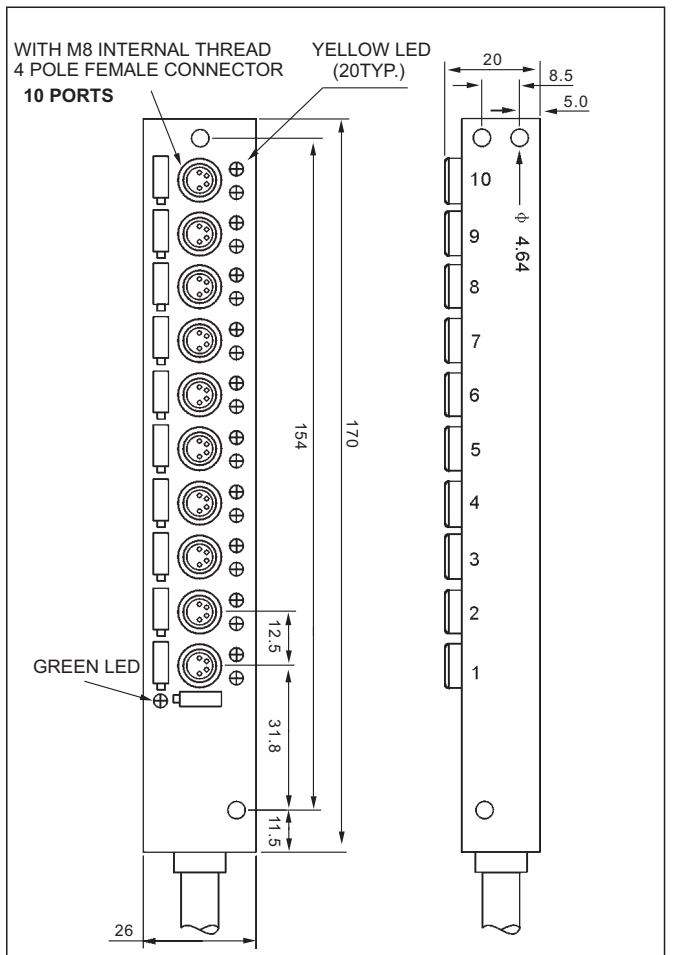
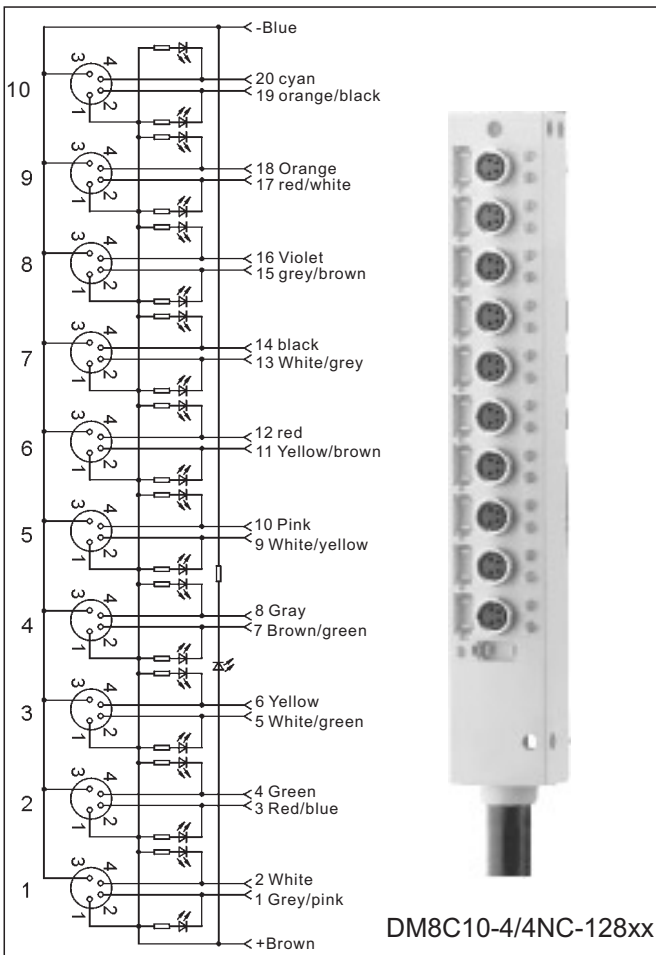
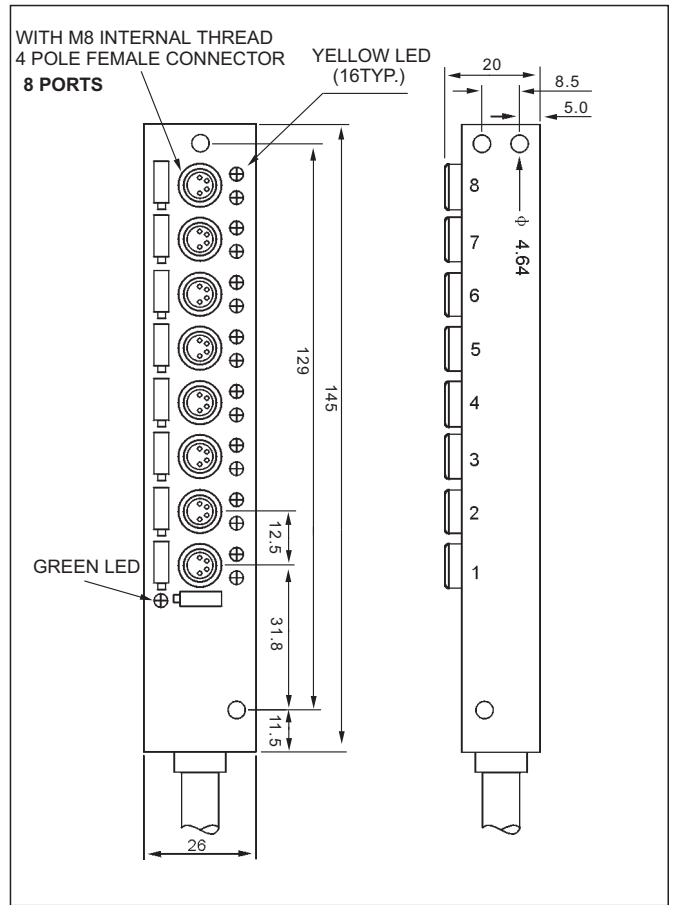
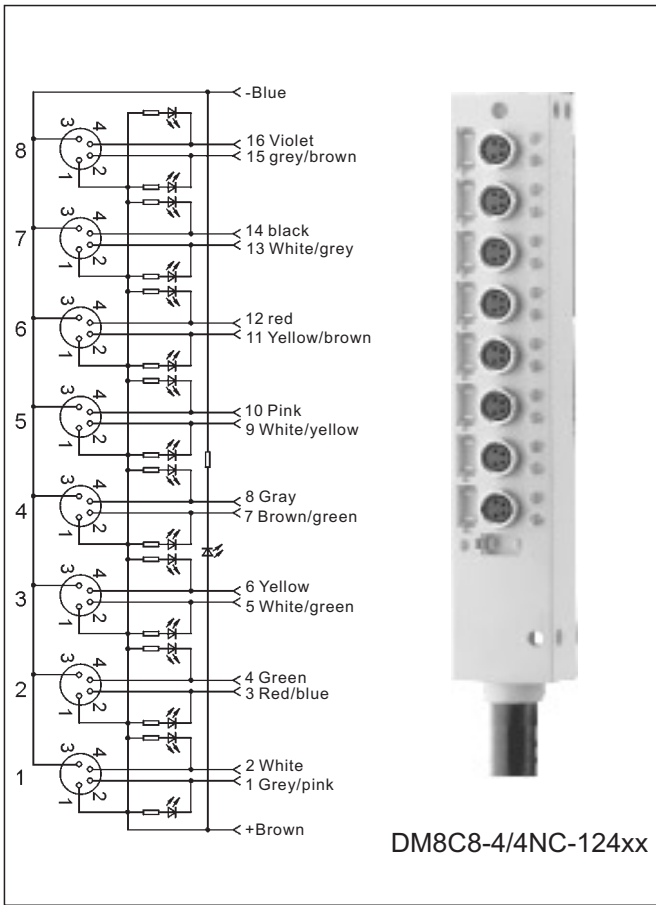
# DISTRIBUTION BOXES(DM8-4PIN NPN SERIES)

## Mechanicals



# DISTRIBUTION BOXES(DM8-4PIN NPN SERIES)

## Mechanicals



# DISTRIBUTION BOXES(DM8-4PIN NPN SERIES)

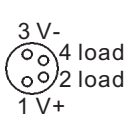
## Description

Simplifies wiring installation-integrated molded PVC or PUR home run cable  
 Allows for top or side entry of threaded 4P male cordsets connecting to ports  
 For use with 4-wire PNP sensors or 24V DC actuators

## Technical Data

<b>1. Application Class:</b>	-5° TO 194° F(-25° TO 90° C)	<b>4. Home run connector cabling</b>	
<b>2. Mechanical</b>		Cable jacket:	Black PUR/PVC composite, BLACK PUR
Insert:	Thermoplastic polyester	<b>4Ports</b>	<b>6Ports</b>
Housing:	PBT	V(+) and V(-):	2x0.75mm <sup>2</sup> 2x0.75mm <sup>2</sup> 2x0.75mm <sup>2</sup> 2x0.75mm <sup>2</sup>
Receptacle housing:	Nickel-plated brass	Control:	4x0.34mm <sup>2</sup> 6x0.34mm <sup>2</sup> 8x0.34mm <sup>2</sup> 10x0.34mm <sup>2</sup>
ID Label:	ABS	<b>5. Stranding</b>	
O-Ring:	Viton	V(+) and V(-):	42x0.15mm 42x0.15mm 42x0.15mm 42x0.15mm
<b>3. Electrical</b>		Control:	42x0.10mm 42x0.10mm 42x0.10mm 42x0.10mm
Voltage rating:	300V	Diameter:	PUR:11.5
Amperage:	2A max/port;6A total per mpis unit	<b>6. Stranding</b>	
Indicating lights:	Green LED-power;Yellow LED-function	Protection:	IP 68
Average LED life:	100,000 Hours		

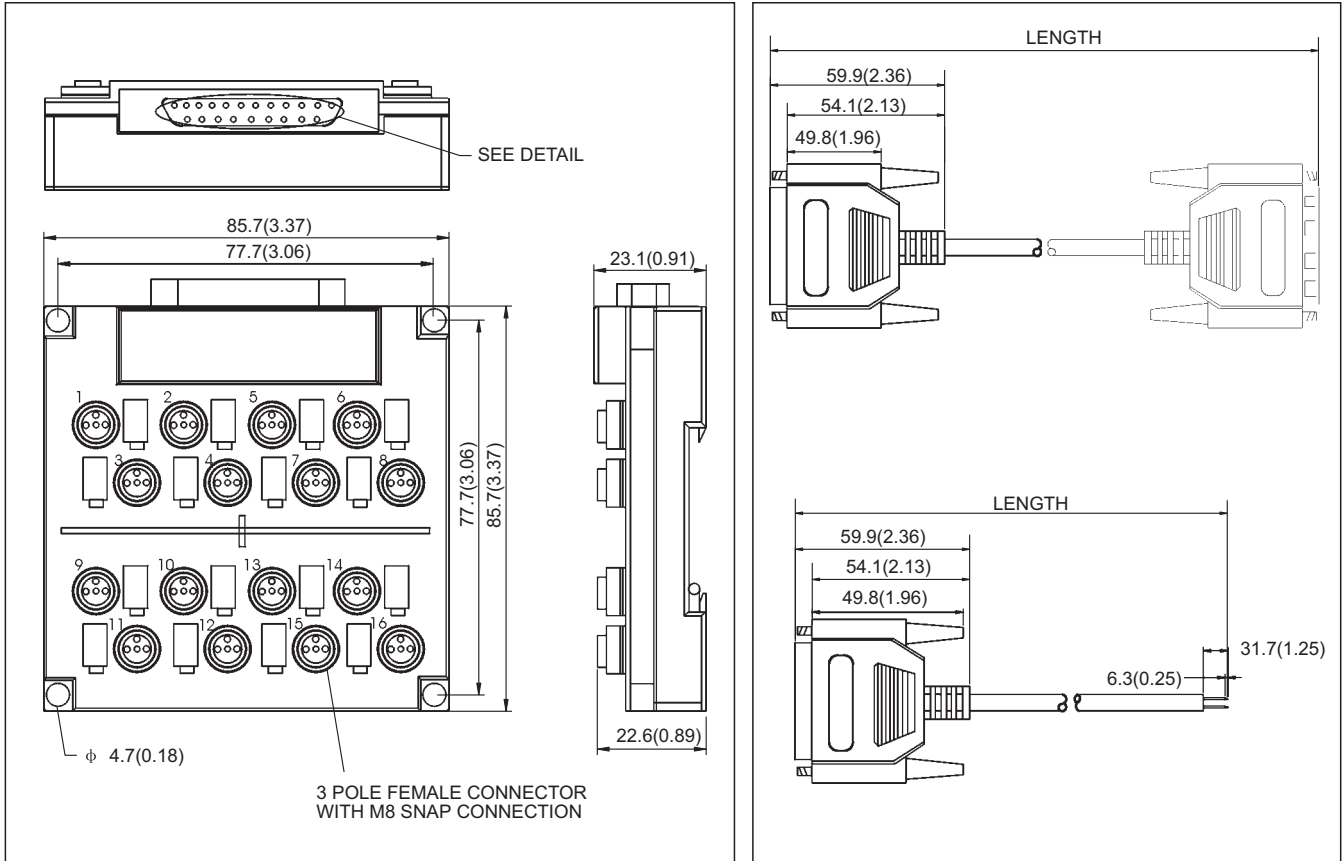
## Order Information

Part Number	Poles	Cable Type	Cable Type				
			Lead(mm <sup>2</sup> )	Outer Jacket			
DM8C4-4/4NC-122xx		1 = Grey/pink 2 = White 3 = Red/blue 4 = Green 5 = White/green 6 = Yellow 7 = Brown/green 8 = Gray V += Brown V -= Blue Ground = yellow/green	V+ and V- 0.75mm <sup>2</sup>	PVC/PUR			
DM8C4-4/4NC-125xx				PUR			
DM8C6-4/4NC-123xx		1 = Grey/pink 2 = White 3 = Red/blue 4 = Green 5 = White/green 6 = Yellow 7 = Brown/green 8 = Gray 9 = White/yellow 10 = Pink 11 = Yellow/brown 12 = red		Control 0.34mm <sup>2</sup>	PVC/PUR		
DM8C6-4/4NC-126xx					PUR		
DM8C8-4/4NC-124xx		1 = Grey/pink 2 = White 3 = Red/blue 4 = Green 5 = White/green 6 = Yellow 7 = Brown/green 8 = Gray 9 = White/yellow 10 = Pink 11 = Yellow/brown 12 = red 13 = White/grey 14 = black 15 = grey/brown 16 = Violet V += Brown V -= Blue Ground = yellow/green			φ 11.5	PVC/PUR	
DM8C8-4/4NC-127xx						PUR	
DM8C10-4/4NC-128xx		1 = Grey/pink 2 = White 3 = Red/blue 4 = Green 5 = White/green 6 = Yellow 7 = Brown/green 8 = Gray 9 = White/yellow 10 = Pink 11 = Yellow/brown 12 = red 13 = White/grey 14 = black 15 = grey/brown 16 = Violet 17 = red/white 18 = orange 19 = orange/black 20 = cyan V += Brown V -= Blue Ground = yellow/green				PUR	PVC/PUR
DM8C10-4/4NC-129xx							PUR

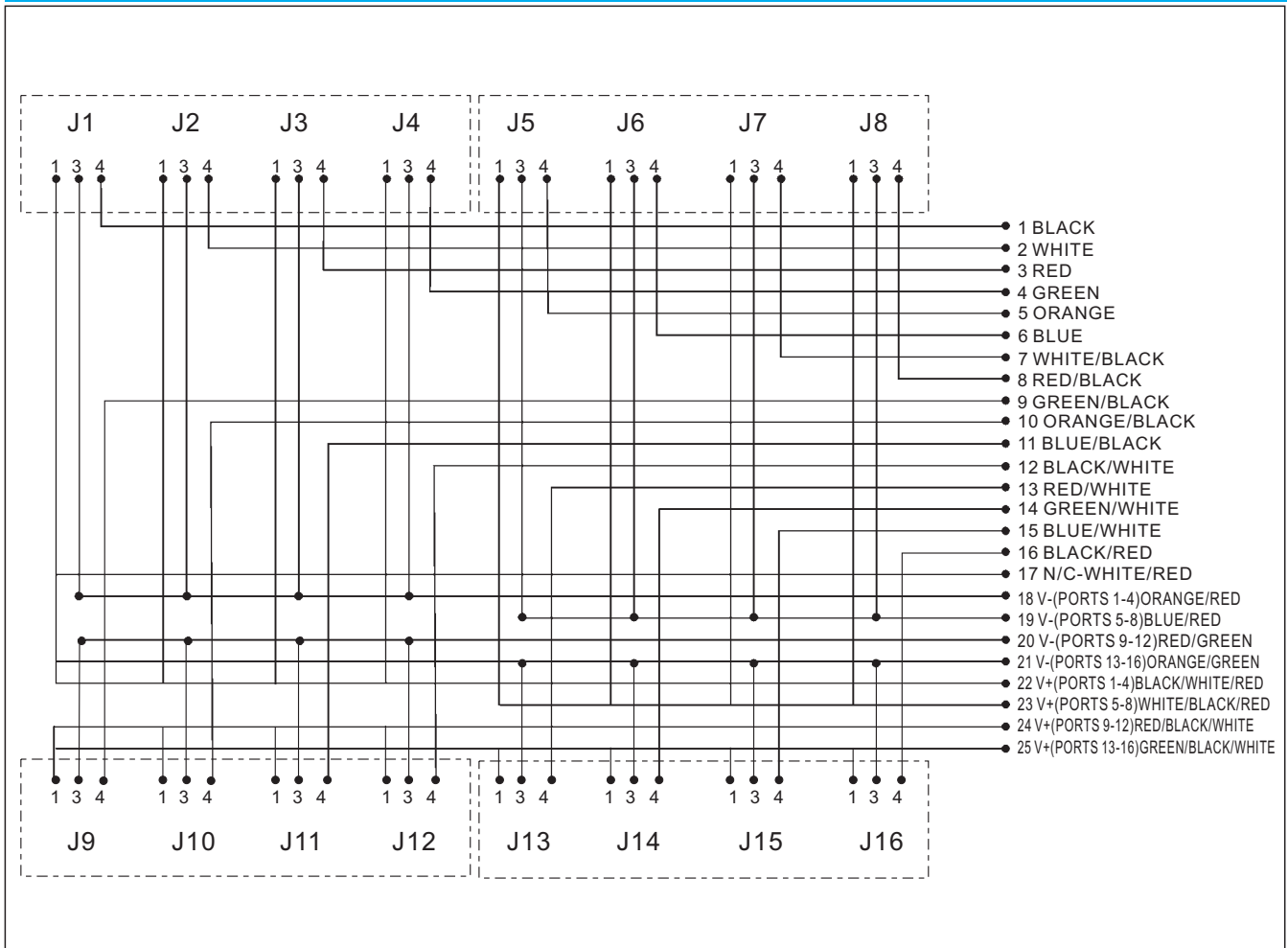


# DISTRIBUTION BOXES(DM8-SERIES)

## Mechanicals



## Schematics



# DISTRIBUTION BOXES (DM8-SERIES)

## Description

Maximum I/O density of 3P M8 cordsets-16 inputs  
 Snap fittings featured for quick assembly  
 (4)Independent V+ & V- connections for power isolation

## Technical Data

1. Application Class: 32° TO 140° F(0° TO 60°C)

### 4. Stranding

Protection: IP 65

### 2. Mechanical

Insert: Thermoplastic polyester  
 Housing: BLACK ABS  
 Receptacle housing: Nickel-plated brass  
 ID Label: ABS  
 Mounting: 35mm din rail or(4)#8 self-tapping screws

### 3. Electrical

Voltage rating: 50VDC  
 Amperage: 1.2A max/port;1.2A max per pin on 2pin on 25pin D-SUB

## Order Information

Part Number	Poles	Face View of Male Plug	Cable color
DM8C16-3/3PA-25			1= black 2= white 3= red 4= green 5= orange 6= blue 7= white/black 8= red/black 9= green/black 10= orange/black 11= blue/black 12= black/white 13= red/white 14= green/white 15= blue/white 16= black/red 17= n/c-white/red 18= v-(ports 1-4)orange/red 19= v-(ports 5-8)blue/red 20= v-(ports 9-12)red/green 21= v-(ports 13-16)orange/green 22= v+(ports 1-4)black/white/red 23= v+(ports 5-8)white/black/red 24= v+(ports 9-12)red/black/white 25= v+(ports 13-16)green/black/white