Thru-beam Mode (DC)

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
	2m Cable		Emitter	RP75-T045MD-EY6C2L2
	The Call III		NPN	RP75-T045MN-CY6C3U2
			PNP	RP75-T045MP-CY6C3U2
		10-30V DC	NPN/PNP	RP75-T045MD-CY6C4U2
	MTS-015MR- CYGOLIAPS		NPN , Timing delay	RP75-T045MN-CY6C3U2-T
			PNP , Timing delay	RP75-T045MP-CY6C3U2-T
<u> </u>			NPN/PNP,Timing delay	RP75-T045MD-CY6C4U2-T
ligh.	Terminal		Emitter	RP75-T045MD-EY6T4L
Red Light			NPN	RP75-T045MN-CY6T4U
~			PNP	RP75-T045MP-CY6T4U
		10-30V DC	NPN/PNP	RP75-T045MD-CY6T4U
	MOTE ACISMR. CYFORI MAPS		NPN , Timing delay	RP75-T045MN-CY6T4U-T
q			PNP , Timing delay	RP75-T045MP-CY6T4U-T
0 0			NPN/PNP,Timing delay	RP75-T045MD-CY6T4U-T
	Quick Disconnect (0° or 90° settled)		Emitter	RP75-T045MD-EY6Q4LE
ε ♦			NPN	RP75-T045MN-CY6Q4UE
45m		10-30V DC (Euro Style)	PNP	RP75-T045MP-CY6Q4UE
0 0			NPN/PNP	RP75-T045MD-CY6Q4UE
			NPN , Timing delay	RP75-T045MN-CY6Q4UE-T
			PNP , Timing delay	RP75-T045MP-CY6Q4UE-T
			NPN/PNP,Timing delay	RP75-T045MD-CY6Q4UE-T
	Quick Disconnect swivel 90°	10-30V DC (Euro Style)	Emitter	RP75-T045MD-EY6Q4LE-S
			NPN	RP75-T045MN-CY6Q4UE-S
2m			PNP	RP75-T045MP-CY6Q4UE-S
e: 4			NPN/PNP	RP75-T045MD-CY6Q4UE-S
Tode			NPN , Timing delay	RP75-T045MN-CY6Q4UE-TS
Thru-beam Mode Sensing Distance: 45m			PNP , Timing delay	RP75-T045MP-CY6Q4UE-TS
-bea			NPN/PNP,Timing delay	RP75-T045MD-CY6Q4UE-TS
hru.	6" Pigtail		Emitter	RP75-T045MD-EY6P4LE
ΕØ	Beel III		NPN	RP75-T045MN-CY6P4UE
	To the state of th		PNP	RP75-T045MP-CY6P4UE
		10-30V DC (Euro Style)	NPN/PNP	RP75-T045MD-CY6P4UE
			NPN , Timing delay	RP75-T045MN-CY6P4UE-T
			PNP , Timing delay	RP75-T045MP-CY6P4UE-T
			NPN/PNP,Timing delay	RP75-T045MD-CY6P4UE-T
Note:		<u>I</u>	<u> </u>	

Note:
Coming Soon: Part numbers with underline
In Preparation: Part numbers with a line through the middle
— Af-01—

Thru-beam Mode (AC/DC)

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
	2m Cable	24-240V DC/ 24-240V AC	Emitter (2-wire)	RP75-T045MC-EY6C2L2
			Relay L.O./D.O. (4-wire)	RP75-T045MR-CY6C4L2
E	OFFICE STATE OF THE STATE OF TH		Relay, Timing delay (4-wire)	RP75-T045MR-CY6C4L2-T
Red Light: 650nm			SPST Solid-state Light-ON/Dark-ON (2-wire)	RP75-T045MC-CY6C2U2
ed Ligh	Terminal		Emitter (2-wire)	RP75-T045MC-EY6T4L
Z Z		24-240V DC/	Relay L.O./D.O. (4-wire)	RP75-T045MR-CY6T4L
0 0	went in the second of the seco	24-240V AC	Relay, Timing delay (4-wire)	RP75-T045MR-CY6T4L-T
			SPST Solid-state Light-ON/Dark-ON (2-wire)	RP75-T045MC-CY6T4U
45m	Quick Disconnect (0°or 90° settled)	24-240V DC/ 24-240V AC (Micro Style)	Emitter (2-wire)	RP75-T045MC-EY6Q4LM
			Relay L.O./D.O. (4-wire)	RP75-T045MR-CY6Q4LM
			Relay, Timing delay (4-wire)	RP75-T045MR-CY6Q4LM-T
			SPST Solid-state Light-ON/Dark-ON (2-wire)	RP75-T045MC-CY6Q4UM
15m	Quick Disconnect swivel 90°	24-240V DC/ 24-240V AC (Micro Style)	Emitter (2-wire)	RP75-T045MC-EY6Q4LM-S
lode ance: 4			Relay L.O./D.O. (4-wire)	RP75-T045MR-CY6Q4LM-S
Thru-beam Mode Sensing Distance:	The man got and the control of the c		Relay, Timing delay (4-wire)	RP75-T045MR-CY6Q4LM-TS
Thru-k Sensii	CHEST		SPST Solid-state Light-ON/Dark-ON (2-wire)	RP75-T045MC-CY6Q4UM-S
	6"Pigtail	24-240V DC/ 24-240V AC (Micro Style)	Emitter (2-wire)	RP75-T045MC-EY6P4LM
			Relay L.O./D.O. (4-wire)	RP75-T045MR-CY6P4LM
			Relay, Timing delay (4-wire)	RP75-T045MR-CY6P4LM-T
Note:			SPST Solid-state Light-ON/Dark-ON (2-wire)	RP75-T045MC-CY6P4UM

Note:
Coming Soon: Part numbers with underline
In Preparation: Part numbers with a line through the middle
— Af-02—

Diffuse Mode (DC)

	2m Cable			
			NPN	RP75-D1700N-CY6C3U2
			PNP	RP75-D1700P-CY6C3U2
	<u> </u>	40 20V DC	NPN/PNP	RP75-D1700D-CY6C4U2
	The state of the s	10-30V DC	NPN , Timing delay	RP75-D1700N-CY6C3U2-T
			PNP , Timing delay	RP75-D1700P-CY6C3U2-T
			NPN/PNP,Timing delay	RP75-D1700D-CY6C4U2-T
_ [Terminal		NPN	RP75-D1700N-CY6T4U
30nm			PNP	RP75-D1700P-CY6T4U
Red:680nm	<u> </u>	40 201/ DO	NPN/PNP	RP75-D1700D-CY6T4U
<u> </u>		10-30V DC	NPN , Timing delay	RP75-D1700N-CY6T4U-T
_	BOTA ACTSMIT. CYCOLIM PS		PNP , Timing delay	RP75-D1700P-CY6T4U-T
E			NPN/PNP,Timing delay	RP75-D1700D-CY6T4U-T
10~1700mm	Quick Disconnect (0° or 90° settled)		NPN	RP75-D1700N-CY6Q4UE
ę ▼	The state of the s	10-30V DC (Euro Style)	PNP	RP75-D1700P-CY6Q4UE
(0 0)			NPN/PNP	RP75-D1700D-CY6Q4UE
			NPN , Timing delay	RP75-D1700N-CY6Q4UE-T
			PNP , Timing delay	RP75-D1700P-CY6Q4UE-T
<u>ڇ</u>			NPN/PNP,Timing delay	RP75-D1700D-CY6Q4UE-T
700m	Quick Disconnect swivel 90°		NPN	RP75-D1700N-CY6Q4UE-S
10-1			PNP	RP75-D1700P-CY6Q4UE-S
ce:		10-30V DC	NPN/PNP	RP75-D1700D-CY6Q4UE-S
ode		(Euro Style)	NPN , Timing delay	RP75-D1700N-CY6Q4UE-TS
Diffuse Mode Sensing Distance: 10-1700mm			PNP , Timing delay	RP75-D1700P-CY6Q4UE-TS
iffus			NPN/PNP,Timing delay	RP75-D1700D-CY6Q4UE-TS
٥٥	6" Pigtail		NPN	RP75-D1700N-CY6P4UE
	GEET III		PNP	RP75-D1700P-CY6P4UE
	The state of the s	10-30V DC (Euro Style)	NPN/PNP	RP75-D1700D-CY6P4UE
			NPN , Timing delay	RP75-D1700N-CY6P4UE-T
			PNP , Timing delay	RP75-D1700P-CY6P4UE-T
			NPN/PNP,Timing delay	RP75-D1700D-CY6P4UE-T

Note:
Coming Soon: Part numbers with underline
In Preparation: Part numbers with a line through the middle
— Af-03—

Diffuse Mode (AC/DC)

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
	2m Cable	24-240V DC/ 24-240V AC	Relay L.O./D.O. (4-wire)	RP75-D1700R-CY6C4L2
			Relay, Timing delay (4-wire)	RP75-D1700R-CY6C4L2-T
			SPST Solid-state L.O./D.O. (2-wire)	RP75-D1700C-CY6C2U2
80nm	Terminal		Relay L.O./D.O. (4-wire)	RP75-D1700R-CY6T4L
Red:680nm		24-240V DC/ 24-240V AC	Relay, Timing delay (4-wire)	RP75-D1700R-CY6T4L-T
E .	POTAL SEASON. CHOOLE MAPS		SPST Solid-state L.O./D.O. (2-wire)	RP75-D1700C-CY6T4U
10~1700 mm	Quick Disconnect (0°or 90° settled)	24-240V DC/ 24-240V AC (Micro Style)	Relay L.O./D.O. (4-wire)	RP75-D1700R-CY6Q4LM
			Relay, Timing delay (4-wire)	RP75-D1700R-CY6Q4LM-T
			SPST Solid-state L.O./D.O. (2-wire)	RP75-D1700C-CY6Q4UM
10-1700mm	Quick Disconnect swivel 90°	24-240V DC/ 24-240V AC (Micro Style)	Relay L.O./D.O. (4-wire)	RP75-D1700R-CY6Q4LM-S
ode bistance:			Relay, Timing delay (4-wire)	RP75-D1700R-CY6Q4LM-TS
Diffuse Mode Sensing Distance: 10-	mrit creamic cream are s		SPST Solid-state L.O./D.O. (2-wire)	RP75-D1700C-CY6Q4UM-S
	6"Pigtail	24-240V DC/ 24-240V AC (Micro Style)	Relay L.O./D.O. (4-wire)	RP75-D1700R-CY6P4LM
			Relay, Timing delay (4-wire)	RP75-D1700R-CY6P4LM-T
Note:			SPST Solid-state L.O./D.O. (2-wire)	RP75-D1700C-CY6P4UM

Note:
Coming Soon: Part numbers with underline
In Preparation: Part numbers with a line through the middle
— Af-04—

Retroreflective Mode with Polarizing Filter (DC)

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
	2m Cable		NPN	RP75-L015MN-CY6C3U2-PF
			PNP	RP75-L015MP-CY6C3U2-PF
		40.001/50	NPN/PNP	RP75-L015MD-CY6C4U2-PF
		10-30V DC	NPN , Timing delay	RP75-L015MN-CY6C3U2-TP
	NOTS-LOTSIRE CYCORLIAPS		PNP , Timing delay	RP75-L015MP-CY6C3U2-TP
			NPN/PNP,Timing delay	RP75-L015MD-CY6C4U2-TP
E	Terminal		NPN	RP75-L015MN-CY6T4U-PF
360n	IFE COLL		PNP	RP75-L015MP-CY6T4U-PF
red:(₩	40 00 / 50	NPN/PNP	RP75-L015MD-CY6T4U-PF
LED red:660nm		10-30V DC	NPN , Timing delay	RP75-L015MN-CY6T4U-TP
_	RPTS-618MP. CYGOMARPS		PNP , Timing delay	RP75-L015MP-CY6T4U-TP
			NPN/PNP,Timing delay	RP75-L015MD-CY6T4U-TP
	Quick Disconnect (0°or 90° settled)		NPN	RP75-L015MN-CY6Q4UE-PF
_			PNP	RP75-L015MP-CY6Q4UE-PF
15m		10-30V DC	NPN/PNP	RP75-L015MD-CY6Q4UE-PF
		(Euro Style)	NPN , Timing delay	RP75-L015MN-CY6Q4UE-TP
			PNP , Timing delay	RP75-L015MP-CY6Q4UE-TP
			NPN/PNP,Timing delay	RP75-L015MD-CY6Q4UE-TP
	Quick Disconnect swivel 90°		NPN	RP75-L015MN-CY6Q4UE-PS
Note)		10-30V DC (Euro Style)	PNP	RP75-L015MP-CY6Q4UE-PS
Retroreflective Mode (With polarizing filter) Sensing Distance: 15m (Note)			NPN/PNP	RP75-L015MD-CY6Q4UE-PS
Modellter)			NPN , Timing delay	RP75-L015MN-CY6Q4UE-PT
Retroreflective Mode (With polarizing filter) Sensing Distance: 15	HITTA CHAMIL CYCLOLIMAPS		PNP , Timing delay	RP75-L015MP-CY6Q4UE-PT
flect olariz g Dis			NPN/PNP,Timing delay	RP75-L015MD-CY6Q4UE-PT
trore ith po nsine	6" Pigtail		NPN	RP75-L015MN-CY6P4UE-PF
Re (%	Fred III		PNP	RP75-L015MP-CY6P4UE-PF
		10-30V DC	NPN/PNP	RP75-L015MD-CY6P4UE-PF
		(Euro Style)	NPN , Timing delay	RP75-L015MN-CY6P4UE-TP
			PNP , Timing delay	RP75-L015MP-CY6P4UE-TP
			NPN/PNP,Timing delay	RP75-L015MD-CY6P4UE-TP
Note: Used with	RE-6152 (supplied with sensor) r	eflector.		

Used with RE-6152 (supplied with sensor) reflector.
Coming Soon: Part numbers with underline
In Preparation: Part numbers with a line through the middle
—— Af-05—

Retroreflective Mode with Polarizing Filter (AC/DC)

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
	2m Cable	12-240V DC/ 24-240V AC	Relay L.O./D.O. (4-wire)	RP75-L015MR-CY6C4L2-PF
			Relay, Timing delay (4-wire)	RP75-L015MR-CY6C4L2-TP
			SPST Solid-state L.O./D.O. (2-wire)	RP75-L015MC-CY6C2U2-PF
660nm	Terminal		Relay L.O./D.O. (4-wire)	RP75-L015MR-CY6T4L-PF
LED red:660nm		12-240V DC/ 24-240V AC	Relay, Timing delay (4-wire)	RP75-L015MR-CY6T4L-TP
	mystathmen. Cyclimes		SPST Solid-state L.O./D.O. (2-wire)	RP75-L015MC-CY6T4U-PF
	Quick Disconnect (0° or 90° settled)	12-240V DC/ 24-240V AC (Micro Style)	Relay L.O./D.O. (4-wire)	RP75-L015MR-CY6Q4LM-PF
15m			Relay, Timing delay (4-wire)	RP75-L015MR-CY6Q4LM-TP
			SPST Solid-state L.O./D.O. (2-wire)	RP75-L015MC-CY6Q4UM-PF
(e)	24	12-240V DC/ 24-240V AC (Micro Style)	Relay L.O./D.O. (4-wire)	RP75-L015MR-CY6Q4LM-PS
Mode Iter) :e: 15m (N			Relay, Timing delay (4-wire)	RP75-L015MR-CY6Q4LM-PT
Retroreflective Mode (With polarizing filter) Sensing Distance: 15m (No			SPST Solid-state L.O./D.O. (2-wire)	RP75-L015MC-CY6Q4UM-PS
	6" Pigtail	12-240V DC/ 24-240V AC (Micro Style)	Relay L.O./D.O. (4-wire)	RP75-L015MR-CY6P4LM-PF
			Relay, Timing delay (4-wire)	RP75-L015MR-CY6P4LM-TP
	n RE-6152 (supplied with sensor) re		SPST Solid-state L.O./D.O. (2-wire)	RP75-L015MC-CY6P4UM-PF

Note: Used with RE-6152 (supplied with sensor) reflector.

Coming Soon: Part numbers with underline
In Preparation: Part numbers with a line through the middle

— Af-06—

Specifications (DC)

Approx. 1.4° Approx. 1° Approx. 1° Approx. 1° Approx. 1° Approx. 6° Approx. 1° Approx. 1	n (Note)		
Light Spot Size 0 mm @ 40m 38 mm @ 1.3m 280 m Light Source LED Red Response Time/Frequency <0.5ms Supply Voltage 10-30V DC (limit values)	rox.1. 6°		
Light Source LED Red Response Time/Frequency <0.5ms Supply Voltage 10-30V DC (limit values)			
Response Time/Frequency <0.5ms Supply Voltage 10-30V DC (limit values)	nm @ 10m		
Supply Voltage 10-30V DC (limit values)			
	<0.5ms		
Current Consumption (no load) ≤35 mA			
Ripple (within Vs tolerance) <= 5 V peak-to-peak			
Output Type PNP, NPN, PNP/NPN			
Output Voltage High PNP is Vs-(<=2.5V); NPN is approx. Vs			
Output Voltage Low PNP is approx. 0V; NPN is <=1.5V	PNP is approx. 0V; NPN is <=1.5V		
Output Current Max. 100 mA	100 mA		
Operation Mode Light or dark switching selectable via switch	Light or dark switching selectable via switch		
Material Housing: ABS, Optics:PMMA	Housing: ABS, Optics:PMMA		
Enclosure Rating IP 66	IP 66		
Circuit Protection Outputs short circuit and over current protected, Vs reverse polarity	Outputs short circuit and over current protected, Vs reverse polarity protected		
Switching frequency 1000/s	1000/s		
Connection types 2mCable, terminal chamber, M12 plug (4-pin), M12 pigtail (4-pin)	2mCable, terminal chamber, M12 plug (4-pin), M12 pigtail (4-pin)		
Time Options No delay, On delay, Off delay, One-shot (with timer mode only)	No delay, On delay, Off delay, One-shot (with timer mode only)		
Time Settings 0.1 5s Variable (with timer mode only)			
Ambient Operating Temperature -2555°C			
Storage Temperature -4070°C			
IEC 60947-5-2, Parts 7.2.6.1.2.3 or RFI>3V/m (in 80-1000MHz), EFT>1 ESD>4KV(contact)	IEC 60947-5-2, Parts 7.2.6.1.2.3 or RFI>3V/m (in 80-1000MHz), EFT>1KV, ESD>4KV(contact)		
Voltage With Stand Ability IEC 60947-5-2, Part 8.3.3.4 or 500VDC for one min, between all supp connected together and enclosure	IEC 60947-5-2, Part 8.3.3.4 or 500VDC for one min, between all supply terminals connected together and enclosure		
Insulation Resistance >20M Ω , with 500V DC megger between all supply terminals connecte enclosure	>20M Ω , with 500V DC megger between all supply terminals connected together and enclosure		
Vibration Resistance IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x , y and z min	IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x , y and z directions for 30 min		
Shock Resistance IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x , y and z directions for size	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x , y and z directions for six time each		
Weight Approx. 150 g	Approx. 150 g		
Mounting Bracket MB-8347 (optional)	MB-8347 (optional)		

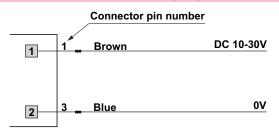
 $\textbf{Note:} \ \textbf{Used with } \textbf{RE-6152} \ (\textbf{supplied with sensor}) \ \textbf{reflector}.$

Specifications (AC/DC)

Sensing Mode	Thru-beam	Diffuse	Retroreflective Mode (With polarizing filter)	
Sensing Range, Adjustable	45m	1.7 m	15m (Note)	
Angle of Divergence	Approx. 1.4° Approx. 6°	Approx. 1°	Approx.1.6°	
Light Spot Size	1 mm @ 40m	38 mm @ 1.3m	280 mm @ 10m	
Light Source	LED Red			
Response Time / Frequency	≤20 ms			
Supply Voltage	12-240V DC / 24-240V A	AC (10%)		
Power Consumption	≤30mA			
Output Type		de arc suppression for induct ther normally closed or norma		
Switching Frequency	25/S			
Switching Current Max.	3 A/240VAC: 3A/30 VDC			
Current Consumption (No load)	≤ 5 VA			
Operation Mode	Relay NO isolated: Light or dark switching selectable via switch SPST Solid-state: Light/Dark operate selectable via switch			
Material	Housing: ABS, Optics: PMMA			
Enclosure Rating	IP 66			
Circuit Protection Output short circuit protected (Not for Relay output), Vs reverse polarit		s reverse polarity protected		
Time Options	No delay, On delay, Off delay, One-shot (with timer mode only)			
Time Settings	Adjustable, 0.15 s (with timer mode only)			
Ambient Operating Temperature	-2555°C			
Storage Temperature	-4070°C			
EMC	IEC 60947-5-2, Parts 7.2.6.1.2.3 or RFI>3V/m (in 30-1000MHz), EFT>1KV, ESD>4KV(contact)			
Voltage Withstand Ability	IEC 60947-5-2, Part 8.3.3.4 or 1500V AC for one min, between all supply terminals connected together and enclosure			
Insulation Resistance	>20M Ω , with 500V AC megger between all supply terminals connected together and enclosure			
Vibration Resistance	IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x , y and z directions for 30 min			
Shock Resistance	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x , y and z directions for six time each			
Weight	approx. 150 g			
Connection types	2m Cable, Terminal, M12 connector, M12 swivel 90° connector, M12 pigtail			
Mounting Bracket	ounting Bracket MB-8347 (optional)			

Note: on RE-6152 (supplied with sensor) reflector.

Emitter of Thru-beam Mode (DC)



Connector pin position

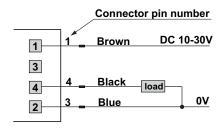
Euro-style

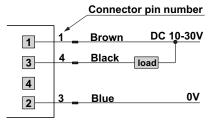


- 1.Brown (+) 2.Not used
- 3.Blue (-) 4.Not used

PNP output

NPN output





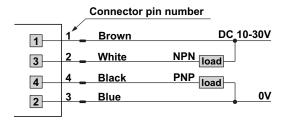
Connector pin position

Euro-style



- 1.Brown (+) 2.Not used 3.Blue (-)
- 4.Black (Output)

NPN/PNP output



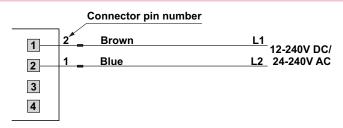
Connector pin position

Euro-style



- 1.Brown (+) 2.White (NPN output)
- 3.Blue (-)
- 4.Black (PNP output)

Emitter of Thru-beam Mode (AC/DC)

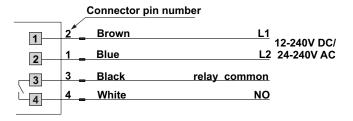


Connector pin position Micro-style



- 1.Red/black(L2) 2.Red/white (L1)
- 3.Not used 4.Not used

Relay output (AC/DC)

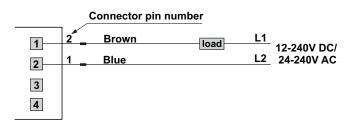


Connector pin position Micro-style



- 1.Red/black(L2) 2.Red/white (L1)
- 3.Red (relay common) 4.Green (N.O.)

SPST Solid-state output (AC/DC)



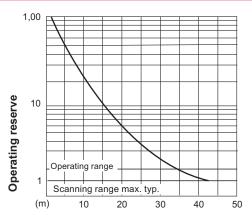
Connector pin position Micro-style



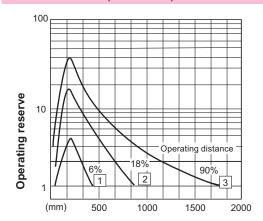
- 1.Red/black(L2) 2.Red/white (L1)
- 3.Not used 4.Not used

Sensing Characteristics (Typical)

Thru-beam Mode (Sn=45m)

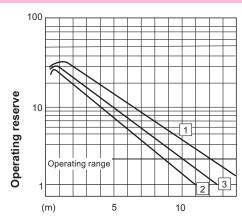


Diffuse Mode (Sn=1.7m)



- Scanning distance on black,6% remission
- 2 Scanning distance on grey,18% remission
- 3 Scanning distance on white,90% remission

Retroreflective Mode with Polarizing Filter (Sn=15m)



	Reflector type	Operating range
1	RE-8484	0.0113.0m
2	RE-6152	0.0110.0m
3	RE-6041	0.0111.0m

Dimensions (Unit: mm)

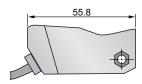
Sensor Type

23.5

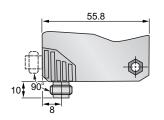
63 41.2 4.8 64 74.5

3-ø 4.3

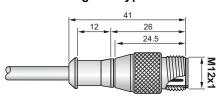
Cable Type



M12 connector (Swivel 90°)



Pigtail* Type



*: Please see **Pigtail Series** or our **Cables & Connectors** catalogue for more information.

MB-8347 (Mounting bracket-optional)

