

Diffuse Mode/Retroreflective Mode (Die-cast Housing)

- ※ Red or Infrared light source
- ※ Die-cast housing
- ※ Compact construction
- ※ Highly flexible connecting cable.


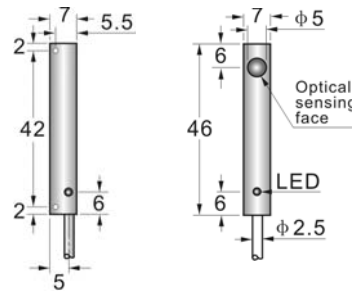
Q6x6x46



Sensing Type	Diffuse Mode		Retroreflective Mode	
Sensing Distance	50mm		600mm (Note)	
Light Source	Red Light 660nm	Infrared 880 nm	Red Light 660nm	Infrared 880 nm
NPN Light-ON	<u>R6A-D0050N-LX6C3U2</u>	<u>R6A-D0050N-LX9C3U2</u>	<u>R6A-L0600N-LX6C3U2</u>	<u>R6A-L0600N-LX9C3U2</u>
NPN Dark-ON	<u>R6A-D0050N-DX6C3U2</u>	<u>R6A-D0050N-DX9C3U2</u>	<u>R6A-L0600N-DX6C3U2</u>	<u>R6A-L0600N-DX9C3U2</u>
PNP Light-ON	<u>R6A-D0050P-LX6C3U2</u>	<u>R6A-D0050P-LX9C3U2</u>	<u>R6A-L0600P-LX6C3U2</u>	<u>R6A-L0600P-LX9C3U2</u>
PNP Dark-ON	<u>R6A-D0050P-DX6C3U2</u>	<u>R6A-D0050P-DX9C3U2</u>	<u>R6A-L0600P-DX6C3U2</u>	<u>R6A-L0600P-DX9C3U2</u>
Voltage supply/ripple	10 to 30V DC (<15% peak-to-peak)			
Voltage drop, output	<2.0V at 100mA			
Rated output current	100mA			
Supply current (no load)	30mA			
Protections	Short circuit, polarity reversal			
Response time	1 ms			
Switching frequency	500 Hz			
Output type	NPN, PNP			
Output function	Only Light-ON or Dark-ON			
Sensitivity/Range adjustment	—			
Connection	2m cable, 3x0.09 mm ²			
LED indicators	LED Red			
Ambient light detection	Per EN 60947-5-2			
Ambient operating temperature	-10°C to +55°C (+14°F to + 131°F)			
Storage temperature	-30°C to +70°C (-22°F to 158°F)			
Degree of protection	IP 65			
Relative humidity	90% at 20°C			
Housing material	Die-cast			
Sensing face material	PMMA			
Dimensions (Unit: mm)				

Note: Used with RE-4235 (supplied with sensor) reflector.
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle


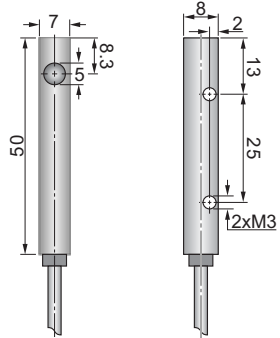
Diffuse Mode/Retroreflective Mode (Die-cast Housing)

<ul style="list-style-type: none"> ※ Red or Infrared light source ※ Die-cast housing ※ Compact construction ※ Highly flexible connecting cable. 	Q7x7x46 			
Sensing Type	Diffuse Mode		Retroreflective Mode	
Sensing Distance	50mm		600mm (Note)	
Light Source	Red Light 660nm	Infrared 880 nm	Red Light 660nm	Infrared 880 nm
NPN Light-ON	<u>R7A-D0050N-LX6C3U2</u>	<u>R7A-D0050N-LX9C3U2</u>	<u>R7A-L0600N-LX6C3U2</u>	<u>R7A-L0600N-LX9C3U2</u>
NPN Dark-ON	<u>R7A-D0050N-DX6C3U2</u>	<u>R7A-D0050N-DX9C3U2</u>	<u>R7A-L0600N-DX6C3U2</u>	<u>R7A-L0600N-DX9C3U2</u>
PNP Light-ON	<u>R7A-D0050P-LX6C3U2</u>	<u>R7A-D0050P-LX9C3U2</u>	<u>R7A-L0600P-LX6C3U2</u>	<u>R7A-L0600P-LX9C3U2</u>
PNP Dark-ON	<u>R7A-D0050P-DX6C3U2</u>	<u>R7A-D0050P-DX9C3U2</u>	<u>R7A-L0600P-DX6C3U2</u>	<u>R7A-L0600P-DX9C3U2</u>
Voltage supply/ripple	10 to 30V DC (<15% peak-to-peak)			
Voltage drop, output	<2.0V at 100mA			
Rated output current	100mA			
Supply current (no load)	30mA			
Protections	Short circuit, polarity reversal			
Response time	1 ms			
Switching frequency	500 Hz			
Output type	NPN, PNP			
Output function	Only Light-ON or Dark-ON			
Sensitivity/Range adjustment	—			
Connection	2m cable, 3x0.09 mm ²			
LED indicators	LED Red			
Ambient light detection	Per EN 60947-5-2			
Ambient operating temperature	-10°C to +55°C (+14°F to + 131°F)			
Storage temperature	-30°C to +70°C (-22°F to 158°F)			
Degree of protection	IP 65			
Relative humidity	90% at 20°C			
Housing material	Die-cast			
Sensing face material	PMMA			
Dimensions (Unit: mm)				

Note: Used with RE-4235 (supplied with sensor) reflector.
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 In Preparation: Part numbers with a line through the middle

N: RX SERIES


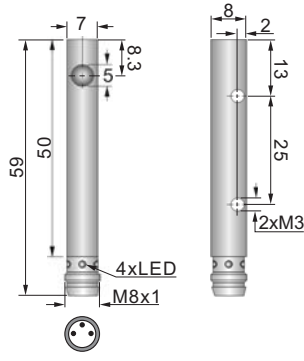
Diffuse Mode/Retroreflective Mode (Die-cast Housing)

<ul style="list-style-type: none"> ※ Red or Infrared light source ※ Die-cast housing ※ Compact construction ※ Highly flexible connecting cable. 	Q7x8x50 			
Sensing Type	Diffuse Mode		Retroreflective Mode	
Sensing Distance	50mm		600mm (Note)	
Light Source	Red Light 660nm	Infrared 880 nm	Red Light 660nm	Infrared 880 nm
NPN Light-ON	<u>R8A-D0050N-LX6C3U2</u>	<u>R8A-D0050N-LX9C3U2</u>	<u>R8A-L0600N-LX6C3U2</u>	<u>R8A-L0600N-LX9C3U2</u>
NPN Dark-ON	<u>R8A-D0050N-DX6C3U2</u>	<u>R8A-D0050N-DX9C3U2</u>	<u>R8A-L0600N-DX6C3U2</u>	<u>R8A-L0600N-DX9C3U2</u>
PNP Light-ON	<u>R8A-D0050P-LX6C3U2</u>	<u>R8A-D0050P-LX9C3U2</u>	<u>R8A-L0600P-LX6C3U2</u>	<u>R8A-L0600P-LX9C3U2</u>
PNP Dark-ON	<u>R8A-D0050P-DX6C3U2</u>	<u>R8A-D0050P-DX9C3U2</u>	<u>R8A-L0600P-DX6C3U2</u>	<u>R8A-L0600P-DX9C3U2</u>
Voltage supply/ripple	10 to 30V DC (<15% peak-to-peak)			
Voltage drop, output	<2.0V at 100mA			
Rated output current	100mA			
Supply current (no load)	30mA			
Protections	Short circuit, polarity reversal			
Response time	1 ms			
Switching frequency	500 Hz			
Output type	NPN, PNP			
Output function	Only Light-ON or Dark-ON			
Sensitivity/Range adjustment	—			
Connection	2m cable, 3x0.09 mm ²			
LED indicators	LED Red			
Ambient light detection	Per EN 60947-5-2			
Ambient operating temperature	-10°C to +55°C (+14°F to + 131°F)			
Storage temperature	-30°C to +70°C (-22°F to 158°F)			
Degree of protection	IP 65			
Relative humidity	90% at 20°C			
Housing material	Die-cast			
Sensing face material	PMMA			
Dimensions (Unit: mm)				

Note: Used with RE-4235 (supplied with sensor) reflector.
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle


N: Rx SERIES

Diffuse Mode/Retroreflective Mode (Die-cast Housing)

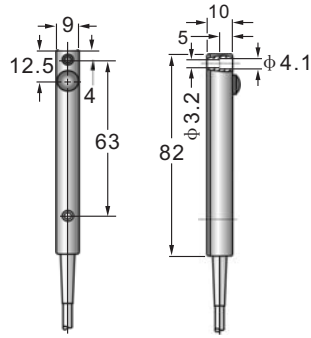
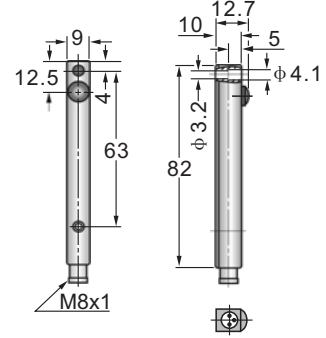
<ul style="list-style-type: none"> ※ Red or Infrared light source ※ Die-cast housing ※ Compact construction ※ M8 quick disconnect 	Q7x8x59 			
Sensing Type	Diffuse Mode		Retroreflective Mode	
Sensing Distance	50mm		600mm (Note)	
Light Source	Red Light 660nm	Infrared 880 nm	Red Light 660nm	Infrared 880 nm
NPN Light-ON	<u>R8A-D0050N-LX6Q3UP</u>	<u>R8A-D0050N-LX9Q3UP</u>	<u>R8A-L0600N-LX6Q3UP</u>	<u>R8A-L0600N-LX9Q3UP</u>
NPN Dark-ON	<u>R8A-D0050N-DX6Q3UP</u>	<u>R8A-D0050N-DX9Q3UP</u>	<u>R8A-L0600N-DX6Q3UP</u>	<u>R8A-L0600N-DX9Q3UP</u>
PNP Light-ON	<u>R8A-D0050P-LX6Q3UP</u>	<u>R8A-D0050P-LX9Q3UP</u>	<u>R8A-L0600P-LX6Q3UP</u>	<u>R8A-L0600P-LX9Q3UP</u>
PNP Dark-ON	<u>R8A-D0050P-DX6Q3UP</u>	<u>R8A-D0050P-DX9Q3UP</u>	<u>R8A-L0600P-DX6Q3UP</u>	<u>R8A-L0600P-DX9Q3UP</u>
Voltage supply/ripple	10 to 30V DC (<15% peak-to-peak)			
Voltage drop, output	<2.0V at 100mA			
Rated output current	100mA			
Supply current (no load)	30mA			
Protections	Short circuit, polarity reversal			
Response time	1 ms			
Switching frequency	500 Hz			
Output type	NPN, PNP			
Output function	Only Light-ON or Dark-ON			
Sensitivity/Range adjustment	—			
Connection	3 pin M8 connector			
LED indicators	LED Red			
Ambient light detection	Per EN 60947-5-2			
Ambient operating temperature	-10°C to +55°C(+14°F to + 131°F)			
Storage temperature	-30°C to +70°C(-22°F to 158°F)			
Degree of protection	IP 65			
Relative humidity	90% at 20°C			
Housing material	Die-cast			
Sensing face material	PMMA			
Dimensions (Unit: mm)				

Note: Used with RE-4235 (supplied with sensor) reflector.
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

Thru-beam Mode (Die-cast Housing)



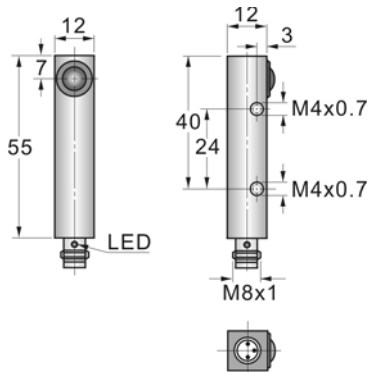
<p>---Long sensing distance; the light beam needs only to travel in one direction from the transmitter to the receiver</p> <p>---High operational safety, interference reflections rarely trigger the receiver.</p> <p>---Detection of very small objects, possible by the additional use of lenses or filters.</p>	Q9x10x82 	Q9x10x82 
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Sensing Type	Thru-beam Mode	
Sensing Distance	6m	
Light Source	Infrared 880nm	
Emitter	R10A-T6000D-EX9C3L2	R10A-T6000D-EX9Q3LP
NPN Light-ON	R10A-T6000N-LX9C3U2	R10A-T6000N-LX9Q3UP
NPN Dark-ON	R10A-T6000N-DX9C3U2	R10A-T6000N-DX9Q3UP
PNP Light-ON	R10A-T6000P-LX9C3U2	R10A-T6000P-LX9Q3UP
PNP Dark-ON	R10A-T6000P-DX9C3U2	R10A-T6000P-DX9Q3UP
Voltage range	10-30VDC	
Short-circuit protection	YES (Only for receiver)	
Output circuit (max)	200 mA (Only for receiver)	
Switching frequency (max)	>100 Hz (Only for receiver)	
LED for output function	---	
LED for supply voltage	---	
LED for diagnostic	---	
Diagnostic function	YES (Only for Emitter)	
Temperature range	-5°C to +70°C(+23°F to +158°F)	
Protection type	IP67/NEMA 4	
Housing material	Die-cast	
Sensing face material	PMMA	
Output Type	NPN, PNP	
Output function	Only Light-ON or Dark-ON	
Connection	2m Cable	M8(Pico-style) connector
Ambient light detection	Per EN 60947-5-2	

Dimensions (Unit: mm)		
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Note:
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

Thru-beam Mode (Sensing Range=6m)



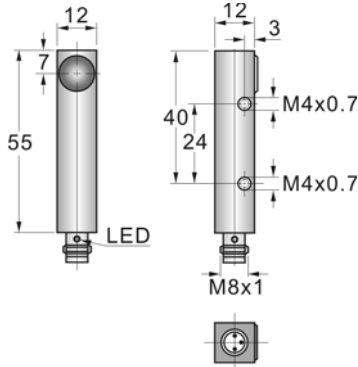
<p>---Long sensing distance; the light beam needs only to travel in one direction from the transmitter to the receiver</p> <p>---High operational safety, interference reflections rarely trigger the receiver.</p> <p>---Detection of very small objects, possible by the additional use of lenses or filters.</p>	<p>Q12x12x55 (Die-cast Housing)</p> 	<p>Q12x12x55 (Plastic Housing)</p> 
	Thru-beam Mode	
	6m	
Infrared 880nm		
Emitter	<u>R12A-T6000D-EX9Q3LP</u>	<u>R12P-T6000D-EX9Q3LP</u>
NPN Light-ON	<u>R12A-T6000N-LX9Q3UP</u>	<u>R12P-T6000N-LX9Q3UP</u>
NPN Dark-ON	<u>R12A-T6000N-DX9Q3UP</u>	<u>R12P-T6000N-DX9Q3UP</u>
PNP Light-ON	<u>R12A-T6000P-LX9Q3UP</u>	<u>R12P-T6000P-LX9Q3UP</u>
PNP Dark-ON	<u>R12A-T6000P-DX9Q3UP</u>	<u>R12P-T6000P-DX9Q3UP</u>
Voltage range	10-30VDC	
Short-circuit protection	YES (Only for receiver)	
Output circuit (max)	200 mA (Only for receiver)	
Switching frequency (max)	>100 Hz (Only for receiver)	
LED for output function	Yes (Only for receiver)	
LED for supply voltage	Yes (Only for emitter)	
LED for diagnostic	---	
Diagnostic function	YES (Only for Emitter)	
Temperature range	-5°C to +70°C(+23°F to +158°F)	
Protection type	IP65/NEMA 12	
Housing material	Die-cast	Plastic
Sensing face material	PMMA	
Output Type	NPN, PNP	
Output function	Only Light-ON or Dark-ON	
Connection	M8(Pico-style) connector	
Ambient light detection	Per EN 60947-5-2	
Dimensions (Unit: mm)		

Note:

Coming Soon : Part numbers with underline



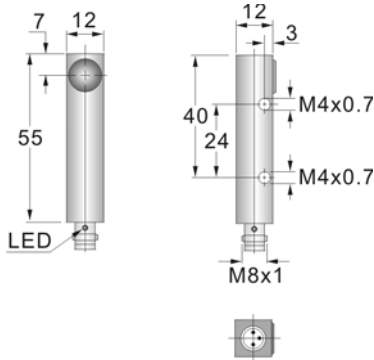
In Preparation: Part numbers with a line through the middle

Thru-beam Mode (Sensing Range=1m)

<p>---Use reduced interior beam; the light beam needs only to travel in one direction from the transmitter to the receiver</p> <p>---High operational safety, interference reflections rarely trigger the receiver.</p> <p>---Detection of very small objects, possible by the additional use of lenses or filters.</p>	<p>Q12x12x55 (Die-cast Housing)</p> 	<p>Q12x12x55 (Plastic Housing)</p> 
	Thru-beam Mode	
	1m	
Infrared 880nm		
Emitter	<u>R12A-T1000D-EX9Q3LP</u>	<u>R12P-T1000D-EX9Q3LP</u>
NPN Light-ON	<u>R12A-T1000N-LX9Q3UP</u>	<u>R12P-T1000N-LX9Q3UP</u>
NPN Dark-ON	<u>R12A-T1000N-DX9Q3UP</u>	<u>R12P-T1000N-DX9Q3UP</u>
PNP Light-ON	<u>R12A-T1000P-LX9Q3UP</u>	<u>R12P-T1000P-LX9Q3UP</u>
PNP Dark-ON	<u>R12A-T1000P-DX9Q3UP</u>	<u>R12P-T1000P-DX9Q3UP</u>
Voltage range	10-30VDC	
Short-circuit protection	YES (Only for receiver)	
Output circuit (max)	200 mA (Only for receiver)	
Switching frequency (max)	>100 Hz (Only for receiver)	
LED for output function	Yes (Only for receiver)	
LED for supply voltage	Yes (Only for emitter)	
LED for diagnostic	---	
Diagnostic function	YES (Only for Emitter)	
Temperature range	-5°C to +70°C(+23°F to +158°F)	
Protection type	IP65/NEMA 12	
Housing material	Die-cast	Plastic
Sensing face material	PMMA	
Output Type	NPN, PNP	
Output function	Only Light-ON or Dark-ON	
Connection	M8(Pico-style) connector	
Ambient light detection	Per EN 60947-5-2	
Dimensions (Unit: mm)		

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



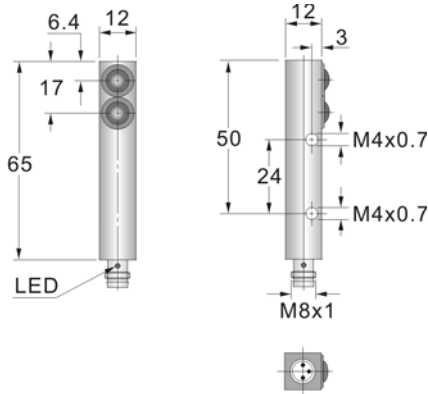
Thru-beam Mode (Sensing Range=60m)

<ul style="list-style-type: none"> ---Laser light source ---Very long sensing range ---High operational safety, interference reflections rarely trigger the receiver. ---Detection of very small objects, possible by the additional use of lenses or filters. 	<p style="text-align: center;">Q12x12x55 (Die-cast Housing)</p> 	<p style="text-align: center;">Q12x12x55 (Plastic Housing)</p> 
Sensing Type	Thru-beam Mode	
Sensing Distance	60m	
Light Source	Laser Light	
Emitter	R12A-T060MD-EX8Q3LP	R12P-T060MD-EX8Q3LP
NPN Light-ON	R12A-T060MN-LX8Q3UP	R12P-T060MN-LX8Q3UP
NPN Dark-ON	R12A-T060MN-DX8Q3UP	R12P-T060MN-DX8Q3UP
PNP Light-ON	R12A-T060MP-LX8Q3UP	R12P-T060MP-LX8Q3UP
PNP Dark-ON	R12A-T060MP-DX8Q3UP	R12P-T060MP-DX8Q3UP
Voltage range	10-30VDC	
Short-circuit protection	YES (Only for receiver)	
Output circuit (max)	55 mA (Only for receiver)	
Switching frequency (max)	>1000 Hz (Only for receiver)	
LED for output function	Yes (Only for receiver)	
LED for supply voltage	Yes (Only for emitter)	
LED for diagnostic	---	
Diagnostic function	YES (Only for Emitter)	
Temperature range	-10°C to +50°C(+14°F to +122°F)	
Protection type	IP65/NEMA 12	
Housing material	Die-cast	Plastic
Sensing face material	PMMA	
Output Type	NPN, PNP	
Output function	Only Light-ON or Dark-ON	
Connection	M8(Pico-style) connector	
Ambient light detection	Per EN 60947-5-2	
Dimensions (Unit: mm)		

N : RX SERIES



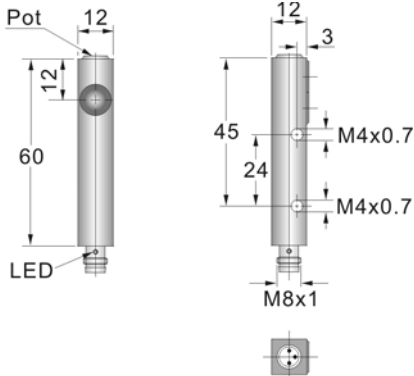
Note:
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Retroreflective Mode

<p>---Easy installation of sensor head and reflector.</p> <p>---Reflector can be fixed to a moving target, e.g. Conveyor belt installations.</p>	<p>Q12x12x65 (Die-cast Housing)</p> 	<p>Q12x12x65 (Plastic Housing)</p> 
	<p>Retroreflective Mode</p>	
Sensing Type	Retroreflective Mode	
Sensing Distance	4m (Note)	
Light Source	Infrared 880nm	
NPN Light-ON	<u>R12A-L4000N-LX9Q3UP</u>	<u>R12P-L4000N-LX9Q3UP</u>
NPN Dark-ON	<u>R12A-L4000N-DX9Q3UP</u>	<u>R12P-L4000N-DX9Q3UP</u>
PNP Light-ON	<u>R12A-L4000P-LX9Q3UP</u>	<u>R12P-L4000P-LX9Q3UP</u>
PNP Dark-ON	<u>R12A-L4000P-DX9Q3UP</u>	<u>R12P-L4000P-DX9Q3UP</u>
Voltage range	10-30VDC	
Short-circuit protection	YES	
Output circuit (max)	200 mA	
Switching frequency (max)	>100 Hz	
LED for output function	YES	
LED for supply voltage	---	
Adjustable sensitivity	---	
Temperature range	-5°C to +70°C(+23°F to +158°F)	
Protection type	IP65/NEMA 12	
Housing material	Die-cast	Plastic
Sensing face material	PMMA	
Output Type	NPN, PNP	
Output function	Only Light-ON or Dark-ON	
Connection	M8(Pico-style) connector	
Ambient light detection	Per EN 60947-5-2	
Dimensions (Unit: mm)		



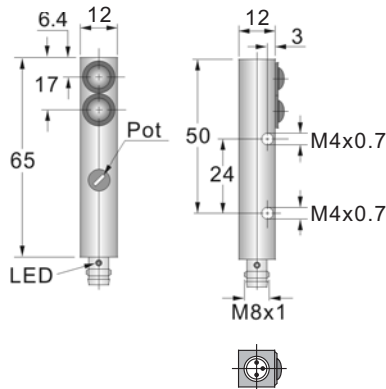
Note: Used with **RE-4235** (supplied with sensor) reflector.
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Diffuse Mode (Sensing Range=200mm)

<p>---Easiest installation ---No reflector necessary</p>	<p>Q12x12x60 (Die-cast Housing)</p> 	<p>Q12x12x60 (Plastic Housing)</p> 
Sensing Type	Diffuse Mode	
Sensing Distance	200mm	
Light Source	Infrared 880nm	
NPN Light-ON	<u>R12A-D0200N-LX9Q3UP</u>	<u>R12P-D0200N-LX9Q3UP</u>
NPN Dark-ON	<u>R12A-D0200N-DX9Q3UP</u>	<u>R12P-D0200N-DX9Q3UP</u>
PNP Light-ON	<u>R12A-D0200P-LX9Q3UP</u>	<u>R12P-D0200P-LX9Q3UP</u>
PNP Dark-ON	<u>R12A-D0200P-DX9Q3UP</u>	<u>R12P-D0200P-DX9Q3UP</u>
Voltage range	10-30VDC	
Short-circuit protection	YES	
Output circuit (max)	200 mA	
Switching frequency (max)	>100 Hz	
LED for output function	YES	
LED for supply voltage	—	
Adjustable sensitivity	YES	
Temperature range	-5°C to +70°C(+23°F to +158°F)	
Protection type	IP65/NEMA 12	
Housing material	Die-cast	Plastic
Sensing face material	PMMA	
Output Type	NPN, PNP	
Output function	Only Light-ON or Dark-ON	
Connection	M8(Pico-style) connector	
Ambient light detection	Per EN 60947-5-2	
Dimensions (Unit: mm)		



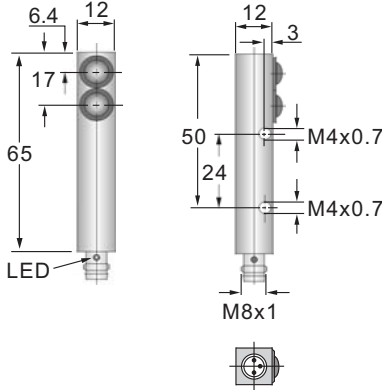
Note:
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 In Preparation: Part numbers with a line through the middle

Diffuse Mode (Sensing Range=1.2m)

---Long Sensing Range ---Easiest installation ---No reflector necessary	Q12x12x65 (Die-cast Housing) 	Q12x12x65 (Plastic Housing) 
	Diffuse Mode	
Sensing Type	Diffuse Mode	
Sensing Distance	1.2m	
Light Source	Infrared 880nm	
NPN Light-ON	<u>R12A-D1200N-LX9Q3UP</u>	<u>R12P-D1200N-LX9Q3UP</u>
NPN Dark-ON	<u>R12A-D1200N-DX9Q3UP</u>	<u>R12P-D1200N-DX9Q3UP</u>
PNP Light-ON	<u>R12A-D1200P-LX9Q3UP</u>	<u>R12P-D1200P-LX9Q3UP</u>
PNP Dark-ON	<u>R12A-D1200P-DX9Q3UP</u>	<u>R12P-D1200P-DX9Q3UP</u>
Voltage range	10-30VDC	
Short-circuit protection	YES	
Output circuit (max)	200 mA	
Switching frequency (max)	>100 Hz	
LED for output function	YES	
LED for supply voltage	—	
Adjustable sensitivity	YES	
Temperature range	-5°C to +70°C(+23°F to +158°F)	
Protection type	IP65/NEMA 12	
Housing material	Die-cast	Plastic
Sensing face material	PMMA	
Output Type	NPN, PNP	
Output function	Only Light-ON or Dark-ON	
Connection	M8(Pico-style) connector	
Ambient light detection	Per EN 60947-5-2	
Dimensions (Unit: mm)		


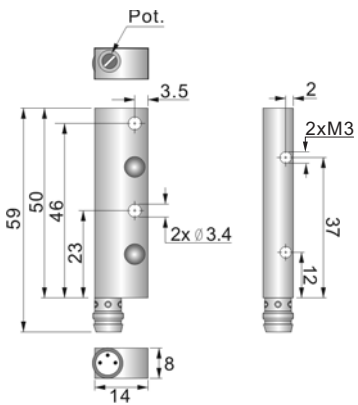
Note:
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

Convergent beam Mode

<p>---Background/foreground suppression. ---Defined active zone.</p>	<p>Q12x12x65 (Die-cast Housing)</p> 	<p>Q12x12x65 (Plastic Housing)</p> 
Sensing Type	Convergent beam Mode	
Sensing Distance	50mm	
Light Source	Infrared 880nm	
NPN Light-ON	<u>R12A-C0050N-LX9Q3UP</u>	<u>R12P-C0050N-LX9Q3UP</u>
NPN Dark-ON	<u>R12A-C0050N-DX9Q3UP</u>	<u>R12P-C0050N-DX9Q3UP</u>
PNP Light-ON	<u>R12A-C0050P-LX9Q3UP</u>	<u>R12P-C0050P-LX9Q3UP</u>
PNP Dark-ON	<u>R12A-C0050P-DX9Q3UP</u>	<u>R12P-C0050P-DX9Q3UP</u>
Voltage range	10-30VDC	
Short-circuit protection	YES	
Output circuit (max)	200 mA	
Switching frequency (max)	>100 Hz	
LED for output function	Yes	
LED for supply voltage	—	
Temperature range	-5°C to +70°C(+23°F to +158°F)	
Protection type	IP65/NEMA 12	
Housing material	Die-cast	Plastic
Sensing face material	PMMA	
Output Type	NPN, PNP	
Output function	Only Light-ON or Dark-ON	
Connection	M8(Pico-style) connector	
Ambient light detection	Per EN 60947-5-2	
Dimensions (Unit: mm)		

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

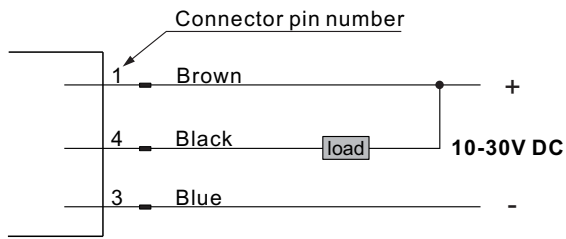
Diffuse Mode (Die-cast Housing)

<p>---Totally self-contained units, no additional amplifier</p> <p>---Adjustable sensing distance</p> <p>---Protected against short-circuit and polarity reversal.</p> <p>---Effective background suppression</p>	<p>Q14x8x59 (Die-cast Housing)</p> 		
	Sensing Type	With Fixed focus	With Background Suppression
	Sensing Distance	10mm	8...20 mm
	Light Source	Infrared 880 nm	Infrared 880 nm
NPN Light-ON	<u>R14A-D0010N-LX9Q3UP</u>	<u>R14A-D0020N-LX9Q3UP-BS</u>	
NPN Dark-ON	<u>R14A-D0010N-DX9Q3UP</u>	<u>R14A-D0020N-DX9Q3UP-BS</u>	
PNP Light-ON	<u>R14A-D0010P-LX9Q3UP</u>	<u>R14A-D0020P-LX9Q3UP-BS</u>	
PNP Dark-ON	<u>R14A-D0010P-DX9Q3UP</u>	<u>R14A-D0020P-DX9Q3UP-BS</u>	
Voltage supply/ripple	10 to 30V DC(<15% peak-to-peak)		
Voltage drop, output	<2.0V at 100mA		
Rated output current	100mA		
Supply current (no load)	30mA		
Protections	Short circuit, polarity reversal		
Response time	1 ms		
Switching frequency	500 Hz		
Output type	NPN,PNP		
Output function	Only Light-ON or Dark-ON		
Sensitivity/Range adjustment	1-turn potentiometer		
Connection	M8(Pico-style) connector		
LED indicators	Red output indication		
Ambient light detection	Per EN 60947-5-2		
Ambient operating temperature	-10°C to +55°C(+14°F to + 131°F)		
Storage temperature	-30°C to +70°C(-22°F to 158°F)		
Degree of protection	IP 65		
Relative humidity	90% at 20°C		
Housing material	Die-cast		
Sensing face material	PMMA		
Dimensions (Unit: mm)			

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

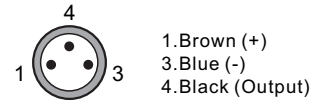
Connection Diagrams / Dimensions

NPN output type

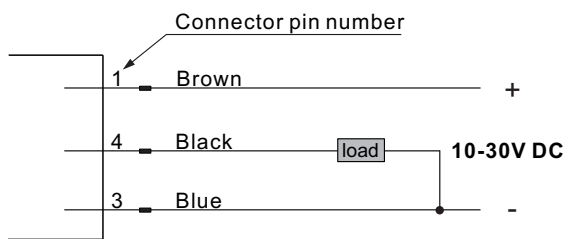


Connector pin position

Pico-Style

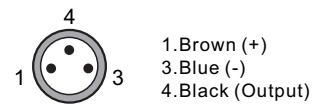


PNP output type

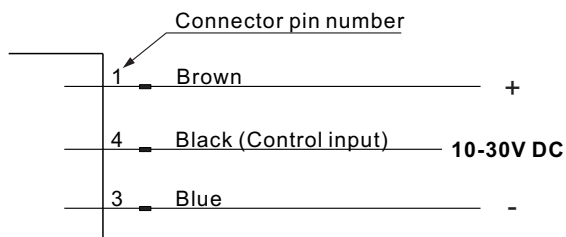


Connector pin position

Pico-Style



Emitter of Thru-beam Mode



Connector pin position

Pico-Style



Mounting Bracket's Dimensions (Unit: mm)

MB-4112 (Only for Q12x12 type sensor-optional)

