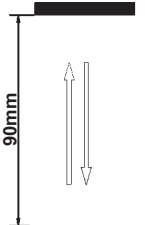



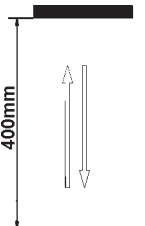



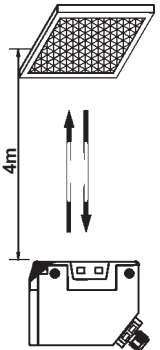



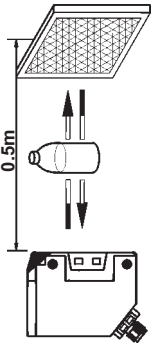





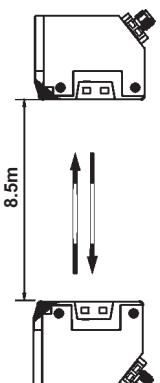



RP32 SENSORS SELECTION GUIDE

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
 <p>90mm</p> <p>Diffuse Mode Fixed-focus Proximity Sensor Sensing Distance:90mm</p>	<p>Cable</p> 	10-30V DC	NPN	RP32-C0090N-CY6C4U2
			PNP	RP32-C0090P-CY6C4U2
			_____	_____
	<p>Quick Disconnect(Pico style)</p> 	10-30V DC	NPN	RP32-C0090N-CY6Q4UP
			PNP	RP32-C0090P-CY6Q4UP
			_____	_____
	<p>6" Pig Tail</p> 	10-30V DC	NPN	RP32-C0090N-CY6P4UP
			PNP	RP32-C0090P-CY6P4UP
			_____	_____
 <p>400mm</p> <p>Diffuse Mode Energetic Proximity Sensor Sensing Distance:400mm</p>	<p>Cable</p> 	10-30V DC	NPN	RP32-D0400N-CY6C4U2
			PNP	RP32-D0400P-CY6C4U2
			_____	_____
	<p>Quick Disconnect(Pico style)</p> 	10-30V DC	NPN	RP32-D0400N-CY6Q4UP
			PNP	RP32-D0400P-CY6Q4UP
			_____	_____
	<p>6" Pig Tail</p> 	10-30V DC	NPN	RP32-D0400N-CY6P4UP
			PNP	RP32-D0400P-CY6P4UP
			_____	_____

RP32 SENSORS SELECTION GUIDE

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
 <p>Retro-reflective Mode With Polarizing filter Sensing Distance:4m</p>	Cable 	10-30V DC	NPN	RP32-L4000N-CY6C4U2-PF
			PNP	RP32-L4000P-CY6C4U2-PF
			_____	_____
	Quick Disconnect(Pico style) 	10-30V DC	NPN	RP32-L4000N-CY6Q4UP-PF
			PNP	RP32-L4000P-CY6Q4UP-PF
			_____	_____
	6" Pig Tail 	10-30V DC	NPN	RP32-L4000N-CY6P4UP-PF
			PNP	RP32-L4000P-CY6P4UP-PF
			_____	_____
 <p>Retro-reflective Mode Clear Material Sensor Sensing Distance:0.5m</p>	Cable 	10-30V DC	NPN	RP32-L0500N-CY6C4U2-PD
			PNP	RP32-L0500P-CY6C4U2-PD
			_____	_____
	Quick Disconnect(Pico style) 	10-30V DC	NPN	RP32-L0500N-CY6Q4UP-PD
			PNP	RP32-L0500P-CY6Q4UP-PD
			_____	_____
	6" Pig Tail 	10-30V DC	NPN	RP32-L0500N-CY6P4UP-PD
			PNP	RP32-L0500P-CY6P4UP-PD
			_____	_____

RP32 SENSORS SELECTION GUIDE

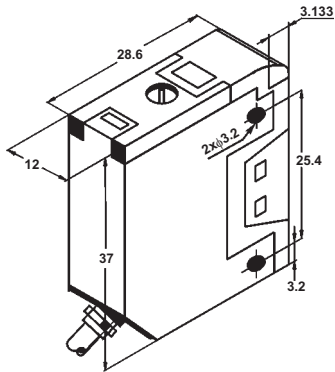
Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
 <p>Through-beam Mode Sensing Distance: 8.5m</p>	Cable 	10-30V DC	Emitter	RP32-T8500D-EY6C3L2
			NPN	RP32-T8500N-CY6C4U2
			PNP	RP32-T8500P-CY6C4U2
	Quick Disconnect(Pico style) 	10-30V DC	Emitter	RP32-T8500D-EY6Q4LP
			NPN	RP32-T8500N-CY6Q4UP
			PNP	RP32-T8500P-CY6Q4UP
	6" Pig Tail 	10-30V DC	Emitter	RP32-T8500D-EY6P4LP
			NPN	RP32-T8500N-CY6P4UP
			PNP	RP32-T8500P-CY6P4UP

RP32 SENSORS SPECIFICATIONS DC

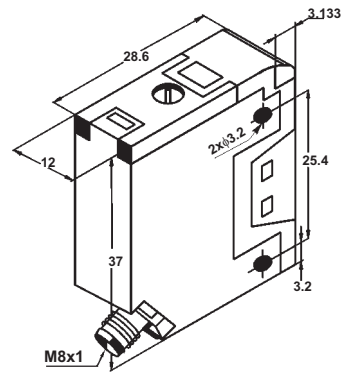
Sensing Mode	Diffuse Mode	Retro-reflective Mode (With polarizing filter)	Through-beam Mode	
			Emitter	Receiver
Sensing Range, Adjustable	400 mm (15.7 in) 90 mm (3.5 in)	4m (13.1 ft) 0.5m (1.6 ft)	Max.: 8.5m (27.9 ft) Typical: 4.8m (15.7ft)	
Angle of Divergence	approx.5.0	approx.4.5	approx.3.5	
Light spot size	approx. 40mm @ 400mm approx. 3.5mm @ 40mm	approx. 200mm @ 2.5m approx. 30mm @ 0.5m	approx. 440mm @ 7m	
Focal Distance	40 mm (1.6 in), from fixed-focus proximity sensor.			
Threshold	from 20% light attenuation, variable. (clear material sensor only.)			
Light Source	LED Red			
Response Time/Frequency	<0.7 ms / 700 Hz	<0.7 ms / 700 Hz	<1 ms / 500 Hz	
Supply Voltage	10...30V DC (limit values)			
Current Consumption(no load)	≤30 mA			
Ripple (within Vs tolerance)	±10%			
Output Type	PNP, NPN			
Output Voltage High	PNP: Vs - (≤1.5V); NPN: approx. Vs.			
Output Voltage Low	PNP: approx. 0V; NPN: ≤1.5V.			
Output Current Max.	100 mA			
Operation Mode	Light or dark switching via control wire			
Connection	Cable or M8 4-pin plug			
Connecting Cable	PVC, 2m			
Housing	Stainless steel/glass fiber reinforced plastic			
Enclosure Rating	IP 67 / NEMA 6			
Circuit Protection	Outputs short circuit and over current protected, Vs reverse polarity protected			
Test Input	_____			
Alarm Output	_____			
Ambient Operating Temperature	-25...55 C (-13...131 F)			
Storage Temperature	-40...70 C (-40...158 F)			
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 With Stand Ability	IEC 60947-5-2, Part 8.3.3.4 or 500VDC for one min, between all supply terminals connected together and enclosure			
Insulation Resistance	>20MΩ, 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 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			
Mounting Bracket	RP32-A1 (see page U-03)			
Weight	approx. 25g connector versions; 66g cable versions			
Pigtail type	See page Q-01 for cable and connect at pigtail			

RP32 SENSORS DIAGRAM

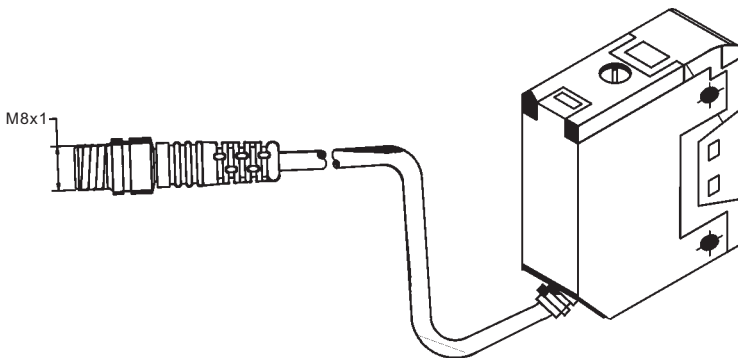
Cable



Quick Disconnect (pico style)



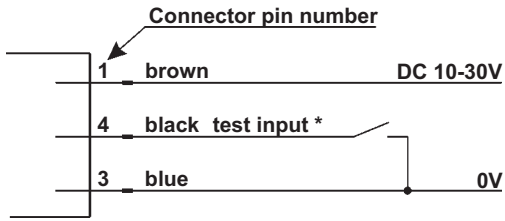
Pig tail*



*: Pig tail series please reference page Q-01.

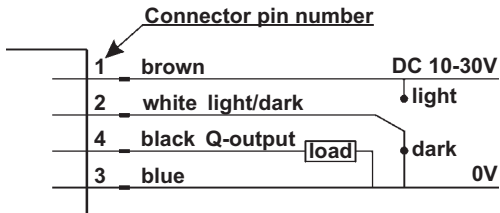
RP32 SENSORS CONNECTION DIAGRAM

Emitter M8 connector (PICO style)

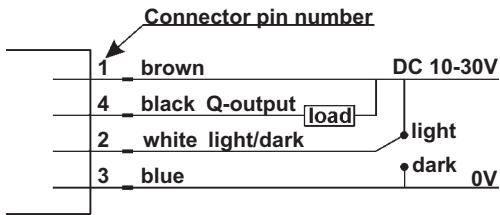


*: Test input=0V Emitter off.

PNP M8 connector (PICO style)

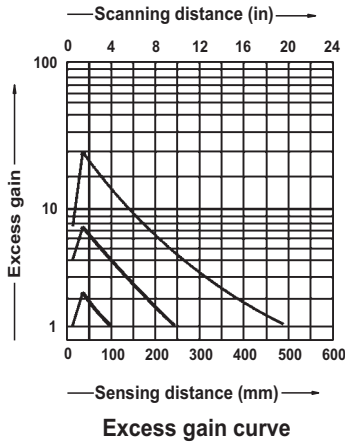


NPN M8 connector (PICO style)

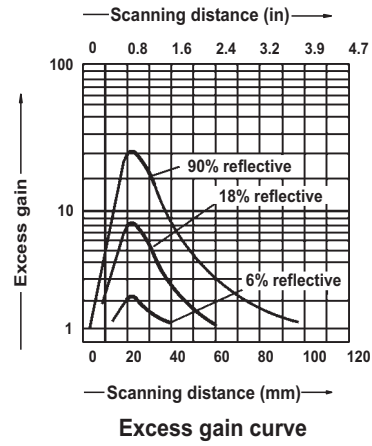


RP32 SENSORS SENSING FIELDS (TYPICAL)

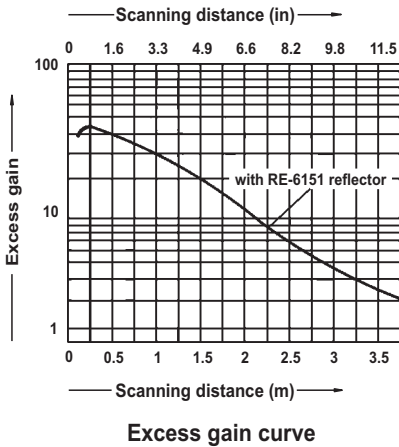
Diffuse: energetic proximity sensor



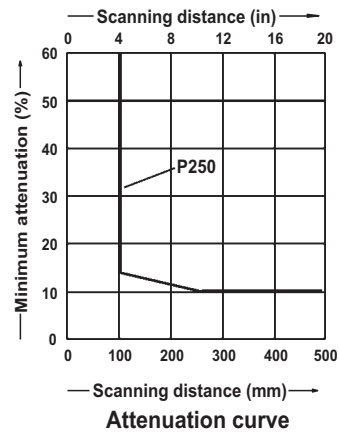
Diffuse: fixed-focus proximity sensor



Retro-reflective sensor



Retro-reflective clear material sensor



Through - beam sensor

