



Position sensors

The measure of things: measuring photoelectric sensor O8 in compact design



Photoelectric sensors



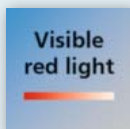
Colour-independent distance measurement even of very flat or reflective objects

Compact light spot for precise detection even at longer distances

Extremely reliable background suppression

Installation within seconds, space-saving design

Easy parameter setting and measured value output to the nearest millimetre via IO-Link



Compact photoelectric sensor with maximum precision

The new powerful O8 is an optimum choice for applications where space is at a premium, for example handling technology and robotics. With the quick mounting set the sensor can be mounted with just one M3 screw within seconds. The new O8 guarantees a reliable distance measurement thanks to its colour-independent operating principle and reliable background suppression. This allows correct detection of small, flat or reflective objects.

Reliable and efficient thanks to IO-Link

The range can easily be set via IO-Link. As an alternative, the distance value can be provided continuously to the nearest millimetre similar to analogue sensors. So a binary diffuse reflection sensor turns into a precise distance sensor, for example, for height and linear measurement of objects.



Type [H, W, D]	Range [mm]	Spot Ø at max. range [mm]	Connection	Order no.
Diffuse reflection sensor with background suppression, 3 wires DC PNP				
Rectangular 28.1 x 8.1 x 14.4 mm	80	4	2 m, PVC cable	O8H270
	80	4	0.3 m PVC cable / M8 connector, 3 poles	O8H271
	80	4	0.3 m PVC cable / M8 connector, 4 poles	O8H272
	80	4	0.3 m PVC cable / M12 connector, 4 poles	O8H273

Accessories

Type	Description	Order no.
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Installation

	Mounting set for clamp mounting, stainless steel, Ø 12 mm	E21297
	Mounting set for clamp mounting, stainless steel, Ø 10 mm	E21298
	Rod, 120 mm, Ø 10 mm, M8 thread, stainless steel	E21081
	Angle bracket for free-standing mounting, quick mounting, stainless steel	E21289
	Angle bracket for free-standing mounting, stainless steel	E21291

Package accessories, system components

	Sensor, 0.3 m, PUR cable, M8 connector	O8H272
	IO-Link master DataLine PROFINET interface, 4 ports	AL1300
	IO-Link master display, connection to master	E30443
	Connection cable, M12, 2 m, black, PUR	EVC013
	Connection cable, M12 / M8, 2 m orange, PVC	EVT215
	Ethernet connection cable M12 / RJ45, 0.5 m	E12490
	LR DEVICE (supplied on USB stick) Software for online and offline parameter setting of IO-Link sensors and actuators	QA0011

IO-Link

	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 kBit/s)	E30390
	Memory plug, parameter memory for IO-Link sensors	E30398

Common technical data

Operating voltage	[V DC]	10...30
Type of light / wave length		red light, 633 nm
Output light-on / dark-on mode		light-on / dark-on selectable
Protection rating, protection class		IP65 / IP67, III
Switching frequency	[Hz]	1000
Switching status indication	LED	yellow
Operation	LED	green
Current rating	[mA]	100
Voltage drop	[V]	< 2.5
Short-circuit protection, pulsed		•
Reverse polarity / overload protection		• / •
Ambient temperature	[°C]	-25...60
Materials	Housing	ABS;
	Lens	316L / 1.4404 PMMA

Package accessories

