Huge IO-Link performance in a tiny M8 housing

Inductive sensors

Long sensing range, minimal space required

Easy installation and replacement thanks to standard M8 connector

The ideal solution where space is at a premium: remote IO-Link parameter setting

Process reliability guaranteed by switch point monitoring for detection of wear

Diagnostic functions, such as internal unit temperature monitoring, help prevent failures

IO-Link

TEACH-IN

IP 67
IP 68
IP 69 K

cULus LISTED

Programmable timer function

Excellent performance in a small housing

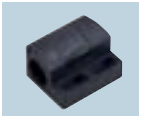
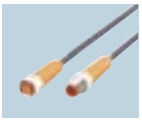
With 3 mm (flush) and 6 mm (non-flush), the sensing range is much than the standard of conventional M8 sensors. Thanks to the high switching frequency of 600 Hz, the sensors also solve demanding position detection tasks where space is limited.

More performance thanks to O-Link

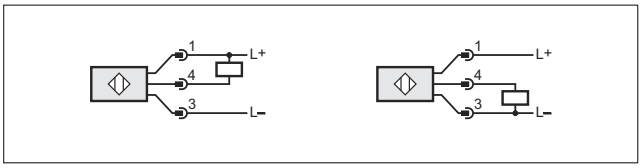
In addition to the switching output, the sensor has an IO-Link interface. Convenient remote parameter setting is also possible. Thanks to the high precision, the user can monitor the switch point to the nearest millimetre and detect mechanical deviations e.g. caused by wear at an early stage. Extensive diagnostic functions, such as integrated unit temperature monitoring, provide additional safety in the installation by sending early warnings in critical applications.

Type	Installation	Measuring range [mm]	Setting range [mm]	Correction factor	Order no.
	flush	0.3…3	0.56...2.8	Steel 1 · stainless steel 0.7 · brass 0.4 aluminium 0.4 · copper 0.3	**IE5457**
	non flush	0.6…6	1.23...5.61	Steel 1 · stainless steel 0.7 · brass 0.5 aluminium 0.5 · copper 0.4	**IE5456**

Accessories

Design	Description	Order no.
Installation		
	Mounting bracket for M8 housing, stainless steel	**E10734**
	Mounting clamp for M8 housing, aluminium, black anodized	**E10221**
	Mounting clamp for type M8, PC	**E11521**
IO-Link		
	IO-Link master DataLine, USB	**AL1060**
	Memory plug, parameter memory for IO-Link sensors	**E30398**
	**moneo|configure SA** (Stand-alone) licence, software for online and offline parameter setting of IO-Link devices including maintenance and support until the end of the following year	**QMP010**
	IO-Link display	**E30391**
Connection technology		
	Connection cable, M8, 3-pole, 2 m, black, PUR cable	**EVC268**
	Connection cable, M8, 3-pole, 5 m, black, PUR cable	**EVC269**

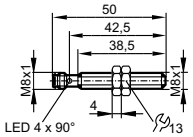
Wiring diagram



Further technical data		
Design		M8 x 1
Housing length	[mm]	50
Electrical design		DC PNP / NPN can be set via IO-Link
Output function		NC / NO adjustable via IO-Link
Operating voltage	[V DC]	10...30
Current rating	[mA]	100
Reverse polarity protection		yes
Short-circuit protection		yes
Protection rating		IP 65 / IP 66 / IP 67 / IP 68 / IP 69 K
Protection class		III
Switching frequency DC	[Hz]	600
Ambient temperature	[°C]	-40...75
Switching status indication	[LED]	4 x yellow
IO-Link process data (cyclic)		
Function		Bit length
Process value		16
Device status		4
Binary switching information		2
IO-Link process data (acyclical)		Switching cycles counter, switch-on cycles counter, operating hours counter, internal temperature, application-specific marking

Dimensions

IE5457



IE5456