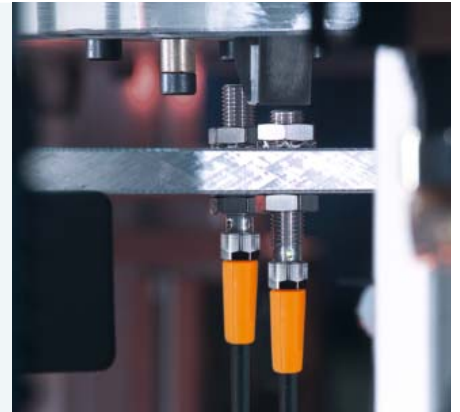




Position sensors

Long range in miniature format: inductive sensor in M8 design



Inductive sensors



30 mm sensor for restricted space

Long range of 6 mm for non flush mounting

Sealed: protection ratings IP 65 to IP 69K

Screw-through thread for flexible mounting

IP 67
IP 68
IP 69 K

Temperature range
-40...+85°C

Resistant

High-grade stainless steel

Vibration and shock resistant

UL LISTED

Light, small and tough

The extremely compact housing has its strength wherever there is restricted space for sensors or where the additional mass is to be kept low: In factory automation, on machine tools or on fast moving robot arms the miniature sensor scores with a range that is almost as long as that of larger designs. Thanks to its stainless steel housing it is extremely resistant. With a temperature range from -40 to 85 °C it is also suited for use in the food industry.

The threads are precisely matched to each other to simplify installation in restricted spaces. The sensor can be screwed into the provided bore hole from the front or from the back. Four LEDs arranged in 90° steps allow visual inspection of the switching state in any position.



Type	Total length [mm]	Sensing range [mm]	Installation	Output	Output function	Order no.
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M8 connector- 3-wire DC

M8	30	3	flush	PNP	normally open	IES215
M8	30	6	non flush	PNP	normally open	IES216
M8	30	3	flush	PNP	normally closed	IES217
M8	30	6	non flush	PNP	normally closed	IES218
M8	30	3	flush	NPN	normally open	IES219
M8	30	6	non flush	NPN	normally open	IES220
M8	30	3	flush	NPN	normally closed	IES221
M8	30	6	non flush	NPN	normally closed	IES222





M8 connector- 2-wire DC

M8	30	3	flush	PNP / NPN	normally open	IES223
M8	30	6	non flush	PNP / NPN	normally open	IES224
M8	30	3	flush	PNP / NPN	normally closed	IES225
M8	30	6	non flush	PNP / NPN	normally closed	IES226

Accessories

Type	Description	Order no.
	Mounting clip for type M8	E11521
	Mounting clamp for M8 design	E10221
	Angle bracket for type M8, stainless steel	E10734
	Fixing nuts (2 pieces), brass plated with white bronze	E10021

Connection technology

Type	Description	Order no.
	Socket, M8, 3 poles 2 m, black, PUR cable	EVC141
	Socket, M8, 3 poles 5 m, black, PUR cable	EVC142
	Socket, M8, 3 poles 2 m, black, PUR cable	EVC144
	Socket, M8, 3 poles 5 m, black, PUR cable	EVC145

Common technical data

Correction factors		Steel: 1; Stainless steel: 0.7; Brass: 0.4; Aluminium: 0.4; Copper: 0.3
Operating voltage	[V DC]	10...30
Current consumption	[mA]	< 20
Protection class		III
Short-circuit protection		•
Reverse polarity protection		•
Voltage drop	[V]	< 2.5
Current rating	[mA]	100
Ambient temperature	[°C]	-40...85
Protection rating		IP 65...IP 69K
Housing materials		high-grade stainless steel (316L/1.4404) sensing face LCP, LED window PEI
Switching status indication	LED	yellow (4 x 90°)

Dimensions

