

Extra-short proximity switches with long sensing ranges.

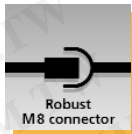
Short M8 housing with different connection options.



- Total length only 35/40 mm, therefore optimum for limited space.
- 3 different connection technologies: M8 connector, cable or pigtail.
- M8 connector for especially fast mounting.
- Long sensing range for more plant uptime.
- Flexible connection possibility as 2-wire or 3-wire unit.

Position sensors

Increased sensing range



IP 67

Vibration and shock resistant

Long sensing range

The increased sensing range is ensured over the complete temperature range and provides better protection against failure by mechanical damage. With the new M8 sensors sensing ranges of 3 mm (flush) and 5 mm (non flush) can be reached. In practice this corresponds to a value which is up to 3 times higher in comparison to standard switches.

M8 connector

The connection is made via a robust M8 connector with integrated, clearly visible 4-port LED for indication of the output status.

Short total length

The total length is only 35 mm in case of the cable version and 40 mm in case of the connector version. The proximity switches can thus be used where space is very limited.

Universal connection possibility for type M8

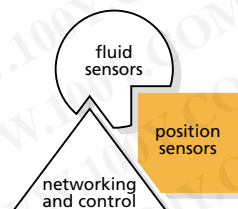
React flexibly to your customers and markets: Due to an innovative output stage the sensors can be operated either as 2-wire unit or as 3-wire unit.

3 connection possibilities:

There is a choice of M8 connectors, 2m PVC cable and 30 cm PVC cable with moulded M12 connector or M8 connector. In this case sensor housing and connector are injection-moulded in one piece. This results in a compact and robust connector.



Assembly line of the company Robo-Mat



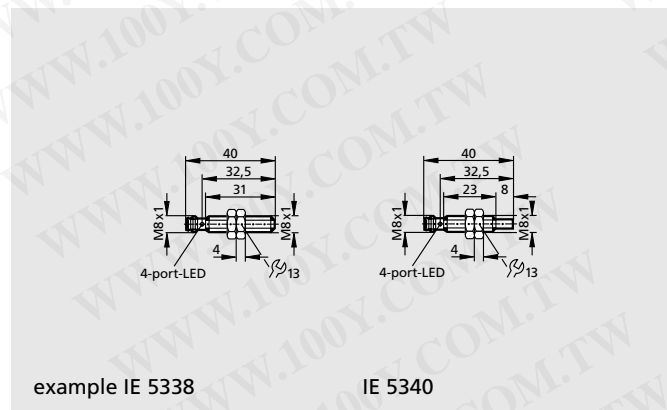
Applications:
 Position detection in the automation and handling technologies

Electrical design	DC PNP									
Connection	3/2-wire									
Type	M8									
Nominal sensing range s_n [mm]	3 f	5 nf	3 f	5 nf	3 f	5 nf	3 f	5 nf	3 f	5 nf
Output										
Operating voltage	IE 5338	IE 5340	IE 5349	IE 5350	IE 5344	IE 5346	IE 5351	IE 5352	IE 5343	IE 5345
Operating voltage [V]	10...30 DC									
Current rating [mA]	100									
Leakage current [mA]	<0.5									
Minimum load current [mA]	2									
Short-circuit protection, pulsed	•									
Rev. pol. prot., overl. protection	•									
Current cons. at 24 V [mA]	<10									
Output status indication LED	yellow (4 x 90°)									
Switching frequency [Hz]	1000	700	1000	700	1000	700	1000	700	1000	700
Operating temperature [°C]	0...60									
Protection	IP 67, III									
Housing material	special coated brass									
Sensing face	LCP	PBT	LCP	PBT	LCP	PBT	LCP	PBT	LCP	PBT
Total length [mm]	40				35					
Connection	M8 connector				PVC cable, 0.3m with M8 connector		PVC cable, 0.3m with M12 connector		PVC cable 2 m	
Wiring diagram										

Sockets and splitter boxes

Socket type	Design	Order no.
ifm	5m (PPU), M8 angled, with LED	E 10292
ifm	5m (PPU), M8 angled, without LED	E 10354
ifm	splitter box M8, 8 locations, 3 poles with 5m connection cable (PUR)	E 11214
ifm	splitter box M8, 8 locations, 3 poles with 10m connection cable (PUR)	E 11215

Dimensions



Accessories

Description	Order no.
Mounting clamp for type M8, aluminium	E 10221
Angle bracket for type M8, stainless steel	E 10734
Mounting sleeve with end stop M8, brass	E 10848