

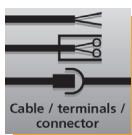
Inductive proximity switches for hazardous dust areas Ex II 3D.

Rectangular designs (for use in zone 22, non-conductive dusts).



- In accordance with 94/9/EC annex VIII (ATEX).
- Six different designs with sensing ranges of 4...60 mm.
- Units with cable, M12 connector or terminal chamber (ATEX-compliant).
- Voltage range 10...36 V DC or 20...250 V AC / DC.

Position sensors



Applications

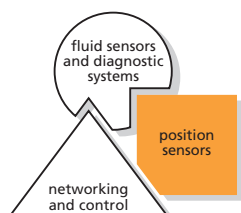
These units are suitable for use in zone 22 hazardous areas with non-conductive dusts according to the category 3D. The design of the proximity switches complies, among others, with the standards EN 50014 und EN 50281-1-1.

The family of units

The rectangular sensors in tried-and-tested plastic housings are available in different sizes from 40 x 12 x 26 mm to 105 x 80 x 40 mm. The range covers dual switches for the detection of valve positions to sensors with extra long sensing ranges for the monitoring of elevators.

Connection options

Units with cable have a 2 m long PVC cable. For the units with M12 connector a locking device (separate order no. E11532) is available which ensures that the connector can only be loosened with the aid of a tool. Units with terminal chamber are fitted with an ATEX-compliant cable gland.



Inductive, capacitive and magnetic proximity switches

Applications:
Developed for the high requirements of the equipment category 3D in hazardous dust areas, (zone 22, non-conductive dusts)

Position sensors

Electrical design	DC PNP 3-wire	DC PNP 4-wire
Connection		
Nominal sensing range s_n [mm]	4 nf	
Output		2 x
Order no.	IN503A	IM500A
Marking	⊕ II 3D IP 67 T 80°C X	
Operating voltage [V]	10...36 DC	
Current rating [mA]	250	200
Operating temperature [°C]	-20...60	
Protection	IP 67; II	
Housing materials	PBTP	
Dimensions [mm]	40 x 26 x 12	40 x 26 x 26
Connection	PVC cable, 2 m	M12 connector

Electrical design	DC PNP 3-wire	AC / DC 3-wire	DC PNP 3-wire
Connection			
Nominal sensing range s_n [mm]	20 nf	40 nf	60 nf
Output	programmable		
Order no.	IM502A	IC000A	ID500A
Marking	⊕ II 3D IP 65 T 80°C X		
Operating voltage [V]	10...36 DC	20...250 AC/DC	10...36 DC
Current rating [mA]	250	200 AC / 100 DC	250
Operating temperature [°C]	-20...60		
Protection	IP 65; II		
Housing materials	PPE		
Dimensions [mm]	120 x 40 x 40	90 x 60 x 40	105 x 80 x 40
Connection	terminal chamber with terminals up to 2.5 mm ²		

Sockets

Socket type	Description	Order no.
ifm	Locking device M12, 10-off	E11532
ifm	5 m (PVC), M12 straight, without LED	E10662
ifm	10 m (PVC), M12 straight, without LED	E10663
ifm	25 m (PVC), M12 straight, without LED	E10899
ifm	5 m (PVC), M12 angled, without LED	E10700
ifm	10 m (PVC), M12 angled, without LED	E10701
ifm	25 m (PVC), M12 angled, without LED	E10800
ifm	5 m (PVC), M12 angled, with LED	E10702
ifm	10 m (PVC), M12 angled, with LED	E10703
ifm	25 m (PVC), M12 angled, with LED	E10773

Dimensions

