

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

M30 design (for use in zone 22, non-conductive dusts).



- In accordance with 94/9/EC annex VIII (ATEX).
- Cable gland, straight or angled mountable.
- Sensing range up to 15 mm, adjustable via potentiometer.
- Voltage range 10...30 V DC or 20...250 V AC / DC.



Applications

These units are specially suitable for use in hazardous areas of the category 3D with non-conductive dusts (zone 22).

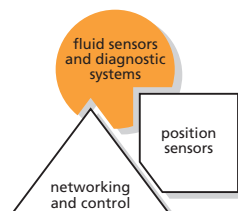
The design of the proximity switches complies, among others, with the standards EN 50014 and EN 50281-1-1. Thus the units are suitable for use in category 3D, e.g. for applications in mills and silos.

Accessories

ifm electronic offers mounting accessories for almost all application areas. Mounting adapters in different materials, lock nuts and protective covers facilitate sensor mounting in the application. Special fixtures are no longer necessary.

Increased noise immunity

All capacitive proximity switches from ifm electronic operate with a patented circuit concept which makes the units immune to electromagnetic interference sources such as switched-mode power supplies, frequency inverters or stepper-motor controllers. Thus the units meet the highest demands on functional safety, ensure machine uptime and minimize maintenance.

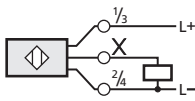
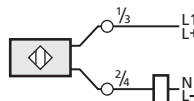


Level sensors

Applications:

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

Fluid sensors and diagnostic systems

Electrical design	DC PNP 3-wire	AC / DC 2-wire
Connection		
Design	M30	
Nominal sensing range s_n [mm]	15 nf	
Output	— / — L programmable	
Order no.	KI5065	KI0042
Operating voltage [V]	10...30 DC	20...250 AC/DC
Current rating [mA]	250	130 AC/DC
Curr. consumption (24 V) [mA]	not switched = < 4 / switched = < 14	—
Minimum load current [mA]	—	5
Switching frequency [Hz]	10	25 AC / 50 DC
Output status indication LED	yellow	
Operating temperature [°C]	-20...60	
Protection	IP 65, II	
Housing materials	PBTP; PA	
Connection	terminals up to 2.5 mm	
Wiring		

Accessories

Description	Order no.
Mounting adapter G 1/2, POM	E11033
Locknut G 1/2, POM	E11031
Mounting adapter G 1/2, PVDF	E11034
Locknut G 1/2, PVDF	E11032
Protective cap for mounting adapter	E11078

Dimensions

