

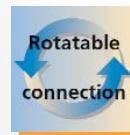


ifm photoelectric sensors for hazardous dust areas.



Photoelectric sensors with excellent performance for ATEX 3D areas.

- Tried-and-tested photoelectric sensors now for hazardous areas.
- Long ranges.
- Highest precision with background suppression.
- Quick setting by means of the new teach method.
- Universal mounting using system components and mounting accessories.



Applications in hazardous dust areas

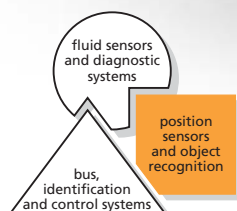
These units comply with category 3D for use in zone 22 hazardous areas with non-conductive dusts.

Versions

New sensors for hazardous dust areas complement the successful O5 opto family of ifm electronic. The new versions are based on the established O5 Performance Line diffuse reflection sensors with background suppression, retro-reflective sensors with polarisation filter and the through-beam system.

Mounting accessories







The ATEX sensor is compatible with the tried-and-tested mounting accessories and system components of the O5 series.



Applications:
position detection in packaging and conveying

Range [mm]	Teach button	Switching frequency [mA]	Protection	Light-on / dark-on mode	Current consumption [mA]	Order no.
Diffuse reflection sensor · red light 624 nm · M12 connector · background suppression · PNP · wiring diagram no. 1						
50...1800	•	1000	IP 65, II	programmable	25	O5H50A
Retro-reflective sensor · red light 624 nm · M12 connector · polarisation filter · PNP · wiring diagram no. 1						
75...10000	•	2000	IP 65, II	programmable	20	O5P50A
Through-beam sensor · red light 624 nm · M12 connector · transmitter · PNP · wiring diagram no. 2						
0...25000	–	–	IP 65, II	–	20	O5S50A
Through-beam sensor · red light 624 nm · M12 connector · receiver · PNP · wiring diagram no. 1						
0...25000	•	1000	IP 65, II	programmable	11	O5E50A

System components

Type	Description	Order no.
	Bracket for free-standing mounting	E21087
	Wall mounting (dovetail) with OL hole centres	E21122
	Prismatic reflector 50 x 50 mm	E20744
	Prismatic reflector 95 x 95 mm	E20454
	Prismatic reflector Ø 42 mm	E20004
	Prismatic reflector Ø 80 mm	E20005

Common technical data		
Operating voltage	[V]	10...36 DC
Current rating	[mA]	200
Voltage drop	[V]	< 2.5
Short-circuit protection, pulsed		•
Reverse polarity / overload protection		• / •
Operating temperature	[°C]	-20...60
EMC		DIN EN 60947-5-2
Material	Housing / plug adapter Front pane / LED window Bezel / protective bracket	PA PMMA stainless steel
Approval		II 3D IP 65 T95 °C X





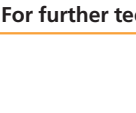
Wiring diagrams of the units



wiring diagram no. 1

wiring diagram no. 2

Connectors and splitter boxes

Type	Description	Order no.
	Socket, M12, 2 m black, PUR cable	EVC001
	Socket, M12, 5 m black, PUR cable	EVC002
	Socket, M12, 2 m black, PUR cable	EVC004
	Socket, M12, 5 m black, PUR cable	EVC005
	Securing clip for M12 connector	E11532

ifm article no. 7511153 · Printed in Germany on non-chlorine paper. · We reserve the right to make technical alterations without prior notice. · 10.2006

Position sensors and object recognition