

Maximum protection in hazardous areas.



Inductive sensors for ATEX 3D (zone 22) and 3G (zone 2).

- The 4 joules impact test guarantees high mechanical stability of the housing.
- Full metal sensors as threaded M12, M18 and M30 types.
- M12 connector ecolink for ATEX categories 2D / 3D / 3G.
- High vibration and shock resistance.









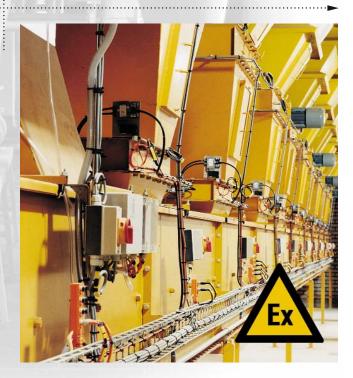
EU-wide explosion protection

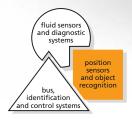
The ATEX directive 94/9/EC (ATEX) sets out detailed rules for explosion prevention.

This sensor family passed a very demanding test series of artificial ageing, 4 joules impact test and subsequent protection rating test. The result: the sensor housings are designed to ensure that, even in the toughest conditions they will not become an ignition source in explosive dusts or gaseous atmospheres. This guarantees maximum protection in hazardous areas.

Only safe with the matching connection

ifm ecolink series connectors also comply with the strict requirements of the standard and are therefore allowed for use in hazardous areas of the categories 2D, 3D and 3G.







Inductive sensors



Threaded housings

Туре	Dimensions Length [mm]	Sensing range [mm]	f [Hz]	Ambient temperature [°C]	Housing material	Category	Order no.		
M12 connector · output function NO · 3-wire DC PNP									
M12	L = 60	3 f	100	-4060	high-grade stainless steel	3D / 3G	IF503A		
M12	L = 70	6 nf	500	-4060	high-grade stainless steel	3D / 3G	IF505A		
M18	L = 70	5 f	100	-4060	high-grade stainless steel	3D / 3G	IG510A		
M18	L = 70	12 nf	500	-4060	high-grade stainless steel	3D / 3G	IG511A		
M30	L = 70	10 f	50	-4060	high-grade stainless steel	3D / 3G	11502A		
M30	L = 70	25 nf	250	-4060	high-grade stainless steel	3D / 3G	11503A		
M30	L = 70	10 f	50	-4060	high-grade stainless steel	2D / 3G	II504A		
M12 connector · output function NC · 3-wire DC PNP									
M12	L = 60	3 f	100	-4060	high-grade stainless steel	3D / 3G	IF504A		
M18	L = 70	5 f	100	-4060	high-grade stainless steel	3D / 3G	IG512A		

ecolink M12 - the safe connection in **ATEX** applications.

This series of ecolink connectors meets the strict requirements of the standard and is therefore allowed for use in ATEX areas of the categories 2D, 3D and 3G. It is a simple matter to tighten the connector so far that it complies with the ATEX requirements but cannot be loosened by hand.

Observe the recommended tightening torques of 1.2...1.5 Nm!



Type Sockets M12,	Description 4-pole	Order no.
	2 m black, PUR cable	EVC04A
SA	5 m black, PUR cable	EVC05A
1	10 m black, PUR cable	EVC06A

Technical data:

Operating voltage: 60 V AC / 60 V DC

Nominal current: 2 A

in locked condition with the matching counterpart.

Tightening torque of the nut: 1.2...1.5 Nm

Nominal current: 2 A

Protection rating: IP 67

in locked condition matching counte

Tightening torque of the nut: 1.2.

Ambient temperature: -20...60 °C

Vibration / shock: 750 g, 1 million of Cable characteristics: drag chain: > Vibration / shock: 750 g, 1 million cycles

Cable characteristics: drag chain: > 5 million cycles

Common technical data

Full-metal inductive sensors M12, M18, M30							
Operating voltage	[V DC]	1036					
Current rating	[mA]	100					
Short-circuit protection, pulsed	•						
Reverse polarity / overload prote	• / •						
Switching status	LED	yellow (4 x 90°)					
Protection in hazardous areas		IP 67					
Protection outside the hazardous area		IP 65, IP 67, IP 68, IP 69K					

Accessories

Туре	Description	Order no.
00	Angle bracket for type M12, stainless steel	E10735
6/0	Angle bracket for type M18, stainless steel	E10736
00	Angle bracket for type M30, stainless steel	E10737

make technical alterations without prior notice.

reserve the right to