

# Proximity Magnetic Sensors Explosive Environment Sensors FS Atex Series - Encapsulated

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- Cylindrical AISI 303 stainless steel housing
- Front side switching
- Encapsulated, NO output function
- Halogen free PUR cable or silicone cable
- According to EN 60079-0 and EN 60079-18
- ATEX certified



## Product Description

These products have been developed and approved to be used in potentially explosive areas, applying protection methods, in accordance with EN 60079-0 normative (Electrical apparatus for potentially explosive atmo-

spheres. General requirements) and EN 60079-18 (Encapsulation "m"). FS magnetic sensors are in category 2, suitable for zone 1 or 2 (gas), 21 or 22 (dust).

## Ordering Key

**FS Q A2 B01 SL EX**

Type \_\_\_\_\_  
 Housing type \_\_\_\_\_  
 Contact type \_\_\_\_\_  
 Cable protection \_\_\_\_\_  
 Cable material \_\_\_\_\_  
 ATEX certified \_\_\_\_\_

## Atex Marking

As for 94/9/EC (ATEX) Directive, products are marked:

 **II 2G Ex mb IIC T5 Gb**  
**II 2D Ex mb IIIC T 100°C Db IP67**

Marking as for ATEX directive: **II 2 G or II 2 D**

- **II:** group, it identifies the surface industry.
- **2:** high protection category, allowing use in areas where an explosive atmosphere is likely to occur in normal operation (zone 1 and 21, covering also zone 2 and 22).
- **G:** presence of gases, vapours and mists (zone 1).
- **D:** presence of explosive dust (zone 21).
- **Ex:** product realized for use in explosive environments.
- **mb:** level of protection for encapsulation. The device is not capable of causing ignition in normal operation and in defined failure conditions.
- **IIC:** group of explosive gases (Hydrogen/Acetylene, valid also for groups IIA-Propane and IIB-Ethylene).
- **IIIC:** group of explosive dust (conductive dust, valid also for group IIIA-combustible flyings and IIIB-non conductive dust).
- **T5:** maximum surface temperature 100°C (gas or vapour ignition temperature > 100°C).
- **T 100°C IP67:** max surface temperature and protection degree, with reference to presence of explosive dusts.
- **Gb, Db:** equipment protection level respectively for gas and dust, according to EN60079-0. Equipment with high level of protection, which is not source of ignition in normal operation or during expected malfunctions.

## Type Selection

Housing type	Output function	Cable protection	Cable	Reference
Cylindrical, AISI 303	NO	Grey spiral sheathing	2 m, silicone	<b>FS Q A2 B01 SL EX</b>
Cylindrical, AISI 303	NO	-	2 m, halogen free PUR	<b>FS Q A2 HF EX</b>



## Output Specifications

<b>Output</b>	NO
<b>Contact ratings</b>	
Max Switching Voltage	250 VAC
Max Switching Current	3 A
Max Switching Power	100 VA

## Operating Distance

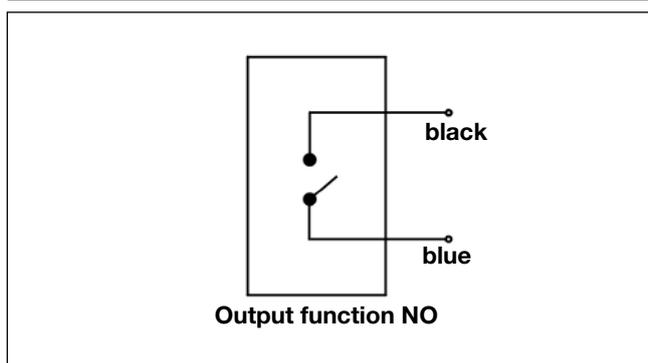
Magnetic units	CL20S3	CL90
FSQA2B01SLEX	8	30
FSQA2HFEX	8	30

Distances are specified in millimeters (mm)  
 xx: operating distance (for all Output functions).

## General Specifications

<b>Operating distance</b>	See Operating Distance table
<b>Suitable magnetic unit</b>	See Operating Distance table
<b>Operating temperature</b>	-20 to +60 °C
<b>Degree of protection</b>	IP 67 IP 66 (FSQA2HFEX)
<b>Housing</b>	
Diameter	PG 13.5 mm
Material	AISI 303 stainless steel
<b>Approvals</b>	ATEX
<b>CE-marking</b>	Yes

## Wiring Diagrams



## Dimensions

