

Product innovation

Air flow controller Series LC 518 GA-EX22

EGE

YOUR SENSOR SPECIALIST



Compact - Intuitive - Trend detection

- Flow monitoring of gaseous media in hazardous areas
- Installation in Zone 2 (gas) or Zone 22 (dust)
- On-site adjustment of detection range
- Stainless steel housing

Application

The air flow monitor LC 518 GA-EX22 detects air flows in exhaust and supply air lines in areas requiring sensors of Ex device category 3. A potentiometer is used to set the output current of the sensor to the desired final value at a specified air flow. A 2-color illuminated dot visualizes the flow signal, which is output via the current output as a 4...20 mA signal.

Features

- Use in Ex -Zone 2 or Ex -Zone 22
- Detection range 0.5...20 m/s
- Stainless steel housing
- Two-colour-illuminated dot
- Potentiometer for end value setting
- 2 m fixed cable
- Analog output 4...20 mA

Type

LC 518 GA-EX22 P11421 • M18 • 0.5...20 m/s

Accessories

2x M18x1 nut (part of delivery)

Use in hazardous areas

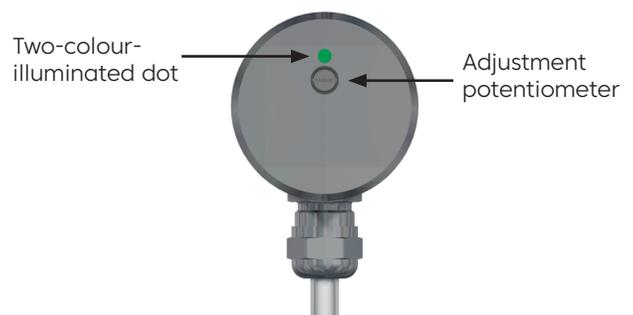
The air flow monitor can be used in areas subject to gas and dust explosion hazards, which require category 3. The permitted area of application must be checked against the device marking:

Gas Ex: Ex II 3 G Ex ic mc IIC T4...T3 Gc
Dust Ex: Ex II 3 D Ex ic mc IIC T135 °C Dc



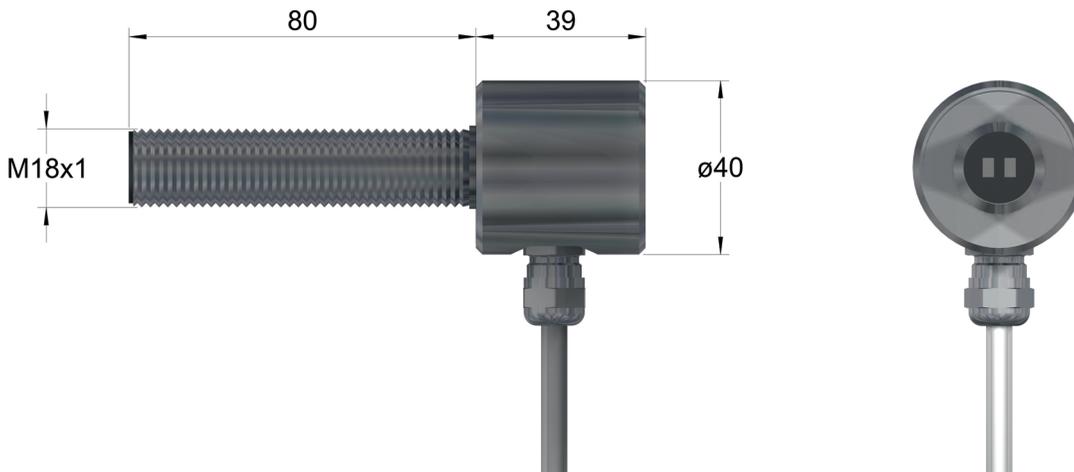
Installation

The sensor is mounted directly in the wall of the ventilation duct using the mounting nuts included in the scope of delivery. If there is also sufficient air flow in the edge area, the measuring surface can be flush with the inner wall of the duct. Alternatively, adapters can be used in which the sensor is screwed in.



Operation and display

The adjustment of the sensor is done on-site with the potentiometer located on the front side during operation in the Ex -zone. If the output current exceeds the lower limit of 4 mA, the light dot changes its color from red to green, if the current reaches the value of 19.5 mA, the green dot flashes.



Technical data

Detection range			
gaseous media	[m/s]	0.5...20	
Sensor length	[mm]	80	
ID-No.		P11421	
Type		LC 518 GA-EX22	
Ex area of use		Gas: Zone 2 / Dust: Zone 22	
Certificate of conformity		EGE 20.0010 X	
Ex marking		Gas Ex: $\text{Ex II 3 G Ex ic mc IIC T4...T3 Gc}$ Dust Ex: $\text{Ex II 3 D Ex ic mc IIC T135 °C Dc}$	
Ambient temperature and medium temperature	[°C]	Gas Zone 2: T3, T4: $-10 \leq Ta \leq +60$ Dust Zone 22: $-10 \leq Ta \leq +60$	
Supply voltage	[VDC]	24 ±10%	
Current consumption max.	[mA]	≤ 35	
Output	[mA]	4...20 non-linear	
Load	[Ω]	200...500	
Start-up time	[s]	20	
Reaction time	[s]	<5	
Compressive strength	[bar]	1	
Housing material		AISI 316 Ti, PBT-GF30, PUR, Ceramic AL ₂ O ₃	
Display flow		two-colour-illuminated dot red/green	
Protection	[EN 60529]	IP 67	
Connection		fixed cable 2 m PUR grey, 3x0.5 mm ²	

Notes The Installation and startup must be performed by trained personnel with knowledge of explosion protection. The applicable regulations and rules for the use of devices in Ex device category 3 must be observed. These are contained in the EN 60079-14 standard, among others.