



FTMG-ESD15AX0

FTMg

FLOW SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
FTMG-ESD15AXO	1100214

Other models and accessories → www.sick.com/FTMg

Detailed technical data

Features

Measurement principle	Calorimetric (flow, temperature), piezoresistive (pressure)
Medium	Compressed air (air quality ISO 8573-1:2010 [3:4:4]), helium, argon, nitrogen, carbon dioxide
Nominal width measuring tube	DN 15
Measuring range	5.3 l/min ... 1,060.3 l/min, standard measuring range ¹⁾ 1,060.3 l/min ... 1,590.4 l/min, extended measuring range ¹⁾
Process temperature	-20 °C ... +60 °C
Process pressure	0 bar ... 16 bar
Communication interface	Ethernet TCP/IP
Temperature measurement	✓
Pressure measurement	✓
Indication	✓ 128 x 128 pixels, adjustable rotary OLED display (90° steps) and 4 pushbuttons

¹⁾ Reference conditions according to DIN 1343 (atmospheric pressure 1,013 mbar, compressed air temperature 0 °C).

Performance

Minimum flow velocity	≥ 0.5 m/s
Maximum flow velocity	≤ 150 m/s
Accuracy of sensor element	± 3 % From measured value + 0.3 % of the measuring range end value (standard measuring range) according to ISO 8573-1:2010 [3:4:4] ± 8 % From measured value + 1 % of the measuring range end value (extended measuring range)
Reproducibility	± 1.5 % From measured value
Response time	< 0.3 s
Temperature measurement	
Accuracy (temperature)	± 2 °C
Reproducibility (temperature)	± 0.5 °C
Pressure measurement	

Accuracy (pressure)	± 1.5 % from measuring range
Non-linearity (pressure)	± 0.5 % from measuring range
Reproducibility (pressure)	± 0.2 % from measuring range

Electronics

Power consumption	< 5 W
Initialization time	≤ 10 s
Protection class	III
Connection type	1 x M12 round connector, 8-pin, x-coded
Output signal	Ethernet TCP/IP, OPC UA, MQTT, integrated web server
Standard communication	IEEE802.3 Clause 25 (100BaseTx); 100 Mbit/sec
Standard supply	Power over Ethernet according to IEEE802.3af
Performance class	Class 0; acc. IEEE802.3af Powered Device < 13 W
Power supply mode	Mode A and Mode B

Mechanics

Process connection	G ½ (according to DIN ISO 228-1)
Wetted parts	Stainless steel 1.4305, PA6, Viton [®] , aluminum
Housing material	PC+ABS, PA66+PA6I GF50, PC, TPE, stainless steel 1.4301
Enclosure rating	IP65/IP67 (according to IEC 60529)
Weight	Approx. 805 g

Ambient data

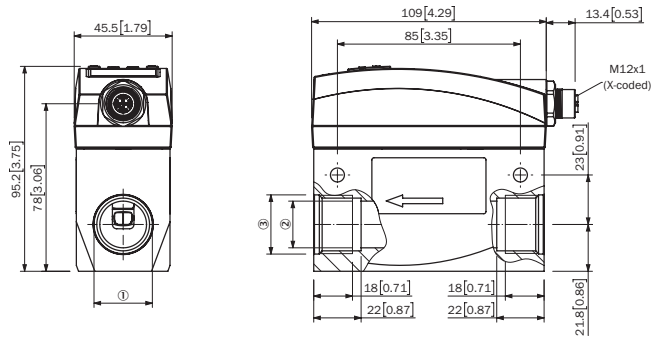
Ambient operating temperature	-20 °C ... +60 °C
Ambient storage temperature	-40 °C ... +85 °C
Max. rel. humidity (not condensing)	90 %

Classifications

ECl@ss 5.0	27200403
ECl@ss 5.1.4	27200403
ECl@ss 6.0	27200403
ECl@ss 6.2	27200403
ECl@ss 7.0	27200403
ECl@ss 8.0	27200403
ECl@ss 8.1	27200403
ECl@ss 9.0	27200403
ECl@ss 10.0	27200403
ECl@ss 11.0	27200403
ETIM 5.0	EC002580
ETIM 6.0	EC002580
ETIM 7.0	EC002580
UNSPSC 16.0901	41112501

Dimensional drawing (Dimensions in mm (inch))

Ethernet version, unit: mm (inch), decimal separator: period



Type	DN	1	2	3
FTMG-ESD15AXX	15	G 1/2	Ø 16.1	Ø 22
FTMG-ESD20AXX	20	G 3/4	Ø 21.7	Ø 27.5
FTMG-ESD25AXX	25	G 1	Ø 27.3	Ø 33.5

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com