



SICK Sensor Intelligence.

**FLOW SENSORS** 

## FTMG-ISD15AX0 | FTMg

**FLOW SENSORS** 



## Ordering information

Туре	Part no.
FTMG-ISD15AX0	1100211

Other models and accessories -> www.sick.com/FTMg

Illustration may differ

# **C**€ **⊘ IO**-Link

## 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 $^{\rm 1)}$ 1,060.3 l/min 1,590.4 l/min, extended measuring range $^{\rm 1)}$
Process temperature	-20 °C +60 °C
Process pressure	0 bar 16 bar
Communication interface	IO-Link V1.1
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	<ul> <li>± 3 % From measured value</li> <li>+ 0.3 % of the measuring range end value (standard measuring range) according to ISO 8573-1:2010 [3:4:4]</li> <li>± 8 % From measured value</li> <li>+ 1 % of the measuring range end value (extended measuring range)</li> </ul>
Reproducibility	± 1.5 % From measured value
Response time	< 0.3 s
Temperature measurement	
Accuracy (temperature)	± +2 °C

## FTMG-ISD15AX0 | FTMg

FLOW SENSORS

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	
Supply voltage	17 V DC 30 V DC <sup>1)</sup>
Power consumption	< 12 W at 24 V DC without output load
Initialization time	≤ 10 s
Protection class	III
Connection type	Round connector M12 x 1, 5-pin
Output signal	1 analog output 4 mA 20 mA +1 digital/analog output (PNP, NPN, push-pull, 4 mA 20 mA / switchable) +1 digital output (PNP, NPN, push-pull, switchable), IO-Link V1.1 (COM3 / 230K4 baud)
Output load	4 mA 20 mA, max. 500 ohm at Uv > 15 V
Lower signal level	3.5 mA 3.8 mA
Upper signal level	20.5 mA 21.5 mA
District contract	
Digital output	≤ 100 mA
Signal voltage HIGH	
•	≤ 100 mA
Signal voltage HIGH	≤ 100 mA > Uv - 2 V

 $^{1)}\,\text{All}$  connections are reverse polarity and overload protected. Q1 and Q2 are short-circuit protected.

Mechanics		
Process connection	G 1/2 (according to DIN ISO 228-1)	
Wetted parts	Stainless steel 1.4305, PA6, Viton <sup>®</sup> , 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		
ECI@ss 5.0	27371815	
ECI@ss 5.1.4	27371815	
ECI@ss 6.0	27371815	
ECI@ss 6.2	27371815	
ECI@ss 7.0	27371815	
ECI@ss 8.0	27371815	
ECIess 8.0	2/3/1815	

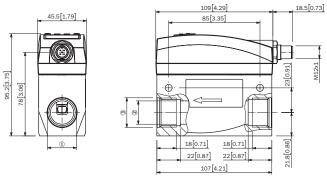
## FTMG-ISD15AX0 | FTMg

FLOW SENSORS

ECI@ss 9.0	27371815
ECI@ss 10.0	27371815
ECI@ss 11.0	27371815
ETIM 5.0	EC002580
ETIM 6.0	EC002580
ETIM 7.0	EC002580
UNSPSC 16.0901	41112501

### Dimensional drawing (Dimensions in mm (inch))

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



Туре	DN	1	2	3
FTMG-ISD15AXX	15	G 1/2	Ø 16.1	Ø 22
FTMG-ISD20AXX	20	G 3/4	Ø 21.7	Ø 27.5
FTMG-ISD25AXX	25	G1	Ø 27.3	Ø 33.5

#### **Recommended services**

Additional services → www.sick.com/FTMg

	Туре	Part no.
Function Block Factory		
• <b>Brief description:</b> The Function Block Factory supports common programmable logic con- trollers (PLCs) from various manufacturers, such as Siemens, Beckhoff, Rockwell Automa- tion and B&R. More information on the FBF can be found <a href="https://fbf.cloud.sick.com&lt;br">target="_blank"&gt;here</a> .	Function Block Factory	On request

# 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



Online data sheet



# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Environmental Test Equipment category:

Click to view products by Sick manufacturer:

Other Similar products are found below :

 CW40
 F150C10E3DRT
 F150LTC20
 F150CD10E2
 F150L75
 F150LRS
 S-11
 FLUKE-LDG
 382153
 FM100
 RH210
 382253
 MO290-P

 GEO-CABLE-REEL-50M
 T197914
 RD300-L
 IR11BD
 IR11GM
 IR21BD
 IR31CE
 IR32BC
 IR33BC
 MP7217TC
 NGM-1
 SGX 

 7NH3
 UT381
 F150-SLC50
 AW-CO-1000
 AW-NmHc-100
 3.000.401
 AX-7535
 CS-9S6SS-A
 P 2801
 P 2802
 P 5039
 P 5130
 P

 5055
 P 5060
 P 5065
 P 5086
 P 5090
 P 5115
 P 5135
 P 5140
 P 5145
 P 5150
 P 5160