

# FTMG-ISD20AXO

FTMg

**FLOW SENSORS** 





## Ordering information

Туре	Part no.
FTMG-ISD20AX0	1100212

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

Illustration may differ



#### 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 20
Measuring range	9.4 l/min 1,884.9 l/min, standard measuring range $^{1)}$ 1,884.9 l/min 2,827.4 l/min, extended measuring range $^{1)}$
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

 $<sup>^{1)}</sup>$  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)	$\pm$ 1.5 % from measuring range
Non-linearity (pressure)	$\pm~0.5~\%$ from measuring range
Reproducibility (pressure)	$\pm~0.2~\%$ 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
Digital output	≤ 100 mA
Signal voltage HIGH	> Uv - 2 V
Signal voltage LOW	≤ 2 V
Inductive load	≤1H
Capacitive load	≤ 100 nF (2.5 nF, IO-Link mode)

 $<sup>^{1)}</sup>$  All connections are reverse polarity and overload protected. Q1 and Q2 are short-circuit protected.

#### Mechanics

Process connection	G ¾ (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. 755 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
ECI@ss 8.1	27371815

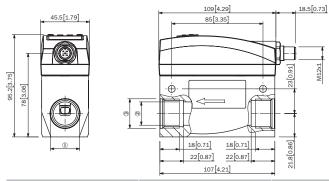
# FTMG-ISD20AX0 | FTMg

**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 controllers (PLCs) from various manufacturers, such as Siemens, Beckhoff, Rockwell Automation and B&R. More information on the FBF can be found <a href='https://fbf.cloud.sick.comtarget="_blank"'>here</a> .	Function Block Factory	On request

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5055 P 5060 P 5065 P 5086 P 5090 P 5110 P 5115 P 5135 P 5140 P 5145 P 5150 P 5160