



Process sensors

More than hot air: flow sensor ensures safety



Flow sensors / flow meters



Specially developed for fresh and exhaust air monitoring on machines

Special adjustment to air for optimum performance

Robust probe for demanding applications

**2-in-1:
flow velocity and temperature**

Flexible parameter setting, diagnostics and data handling thanks to IO-Link



IO-Link

High-grade stainless steel



IP 65
IP 67



LED

Display



A must for extraction systems on machines

During machining or forming processes, the use of coolants, for example, may generate toxic aerosols, smoke or vapours. Extraction systems ensure that these do not escape from the machine. What is very important is to maintain the ideal flow velocity. If the suction is too weak, the dangerous vapours would not be completely extracted. On the other hand, too strong an extraction flow could suck in chips or cooling lubricant which could clog the filter.

The flow sensor, which operates according to the calorimetric measuring principle, has been developed especially for this purpose. It is distinguished by a robust full-metal probe that is resistant to aggressive aerosols, vapours and any particles carried in the extracted air. This ensures a long service life of the sensor. The integrated temperature measurement reduces costs and installation complexity, as no additional sensor is required.



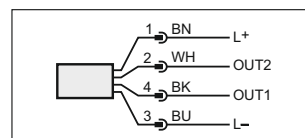
Type	Measuring range [m/s]	Medium temperature [°C]	Response time [s]	Probe length [mm]	Order no.
Output signal: switching signal; analogue signal; frequency signal; IO-Link; (configurable)					
M18	0.6...30	-20...90	7	45	SA5020
Progressive ring	0.6...30	-20...100	7	100	SA4120
Progressive ring	0.6...30	-20...100	7	200	SA4320

Accessories

Type	Description	Order no.
	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 kbits/s)	ZZ1060
	Progressive ring fitting G 1/2, flat seal	E40258
	Progressive ring fitting G 1/4, flat seal	E40259
	Progressive ring fitting G 3/4, flat seal	E40260
	Progressive ring fitting 1/2 NPT	E40261
	Progressive ring fitting 1/4 NPT	E40262
	Progressive ring fitting R 1/2	E40263
	Progressive ring fitting R 1/4	E40264
	Progressive ring fitting for SL mounting adapter	E40269
	Progressive ring fitting G 1/2 metal-to-metal seal	E40267
	Progressive ring fitting G 3/4 metal-to-metal seal	E40268
	Welding adapter for progressive ring	E40265
	Mounting clamp for E40269 progressive ring fitting	E40048
	Progressive ring fitting for thin-walled pipes	E43908

Further technical data		
Operating voltage	[V DC]	18...30
Precision		± (10 % MV + 2 % VMR)
Repeatability		± (3 % MV + 0.6 % VMR)
Protection rating, protection class		IP 65 / IP 67, III
Housing materials		high-grade stainless steel (1.4404/316L); PBT-GF 20; PBT-GF 30
Installation		adjustable to internal pipe diameter; (15...400 mm)
Connection		M12 connector

Wiring diagram



Connection technology

Type	Description	Order no.
	Socket, M12, 2 m black, PUR cable	EVC001
	Socket, M12, 5 m black, PUR cable	EVC002
	Socket, M12, 2 m black, PUR cable	EVC004
	Socket, M12, 5 m black, PUR cable	EVC005
	Socket, M12, 2 m orange, PVC cable	EVT064
	Socket, M12, 5 m orange, PVC cable	EVT001

We reserve the right to make technical alterations without prior notice. · 11.2020