

## ● Characteristics

1 - MODULAR - ECONOMIC - METER



- Input:	0...10 m/s up to 0...30 m/s
- Output:	4...20 mA
- Supply:	24 VDC VDC
- Accuracy:	see technical data
- Process connection:	several options
- Electrical connection:	several plugs
- Temperature range:	0...+60 °C (ambient)
- Limit value contacts:	without
- Adjustment:	in factory
- Material sensor:	see technical data
- Protection:	at least IP65

## ● Technical Data

### Input

Flow:	10 m/s / 20 m/s / 30 m/s
Medium:	Reference conditions: 20 °C, 1013 hPa Air, non-corrosive gases
Measuring principle:	Calorimetric

### Output

Current signal:	4...20 mA
Load:	500 Ω maximum

### Performance

Sensor unit:	Measurement uncertainty:	±5% of final value, dependent on construction (within range 10...100%)
	Reference section:	10x Ø for inflow and outflow
	Repeating accuracy:	±2
	Reaction time:	approx. 2 s
	Dependence on temperature:	±0,01% / 1K
	Transient response:	linear to flow velocity

## ● Applications

For use in air-conditioning and ventilating plants, heating installations and the whole range of industrial facilities. With its numerous electrical connections, the flow sensor is also suitable for applications with higher requirements.



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## ● Technical Data (Continued)

### Supply

Voltage: 24 VDC,  $\pm 10\%$

### Environmental Conditions

Temperature: Operating range: 0...+60 °C  
Storage: -20...+80 °C  
Medium: -20...+70 °C

Condensation: uncritical

### Mechanics

Dimensions: see page 3  
Process connection: without / 1/2" / 3/4" / 1" / 1,5" / 1/2NPT  
Fitting, Nominal length: 80...400 mm  
System pressure: 10 bar with screwed connection  
Electrical connection: see page 3

Material:

Sensor:	Process connection:	stainless steel	
	Sensor tube:	stainless steel	
	Sensor element:	Al <sub>2</sub> O <sub>3</sub> with glassivation	
	Sensor retainer:	FKM	
	Potting:	epoxy resin	
	Body:	all parts:	PBT GF30

Weight: approx. 170 g (1/2", 100 mm, M12)  
Fitting position: any  
Protection class: Sensor: IP67  
Electronics: at least degree IP65 (when electrical connection is plugged)

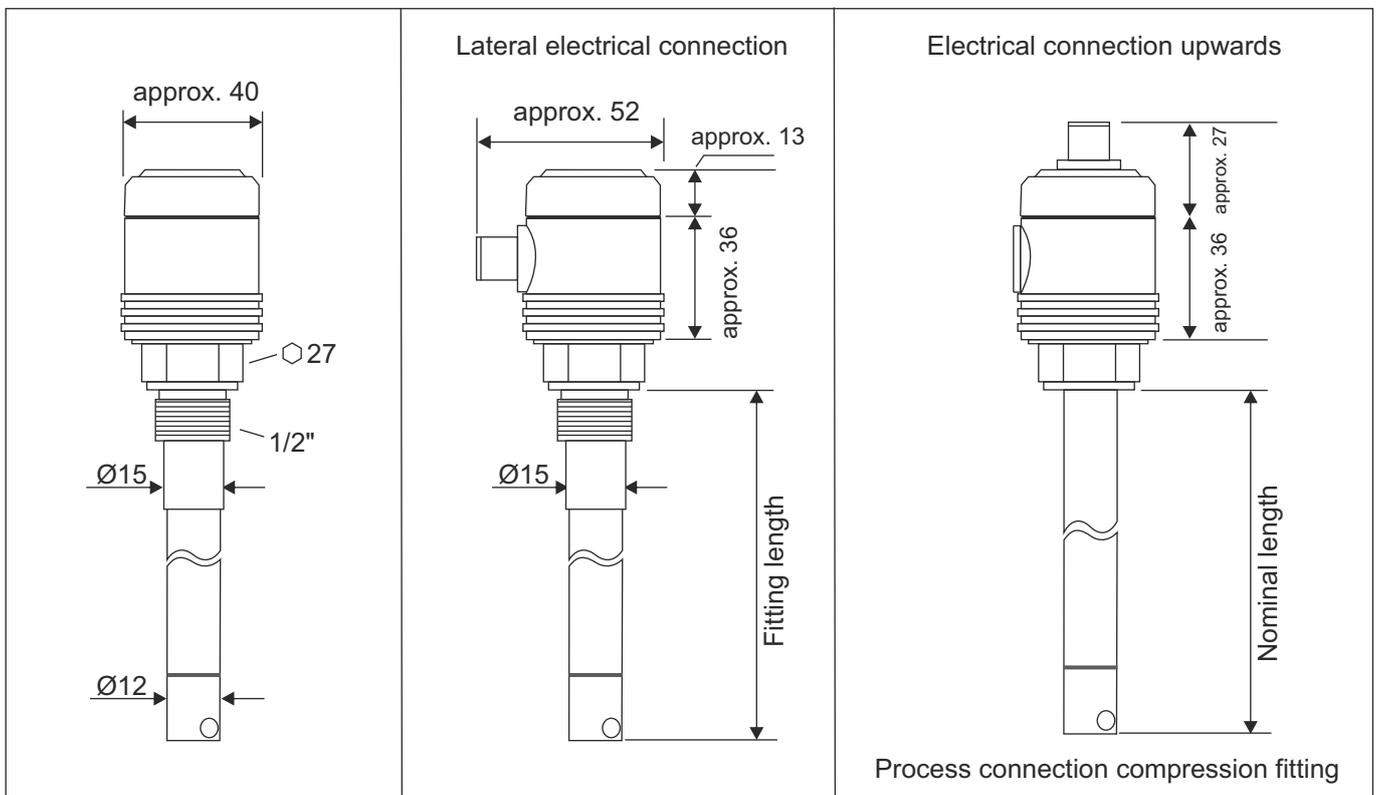
## ● Electrical Connection

M12x1	Super Seal	Deutsch	Deutsch	Bayonet	Valve	MIL	Cable
							
5-, 8-pole	3-pole	3-pole	4-pole	4-pole	4-pole	6-pole	4-pole

Connection	Supply		Out	Programming
	U+	U-	+	
M12, 5-pole	1	3	2	5
M12, 8-pole	1	3	6	
Super Seal, 3-pole*	1	3	2	
Deutsch DT04, 3-pole*	A	B	C	4
Deutsch DT04, 4-pole	1	3	2	4
Bayonet DIN, 4-pole	1	2	3	GND
Valve (L-plug), 4-pole	1	2	3	
Cable, 4-pole	yellow	white	green	
Cable, 6-pole	yellow	white	pink	
MIL, 6-pole	A	C	F	

\* When using 3-pole connectors it is not possible to change the measuring range after assembling of the sensor.

## ● Dimensions (in mm)



● **Order Code**

**O J X X X X X - X - X X**

<b>Input flow:</b>	0...10 m/s	0								
	0...20 m/s	1								
	0...30 m/s	2								
<b>Output:</b>	4...20 mA	1								
<b>Process connection:</b>	Without (for compression fitting)	0								
	1/2"	3								
	3/4"	4								
	1"	5								
	1,5"	6								
	1/2"NPT	9								
<b>Electrical connection:</b>	Lateral (standard)	0								
	Upwards	1								
<b>Electr. connection:</b>	M12, 5-pole						2			
	M12, 8-pole						3			
	Deutsch DT04, 3-pole						4			
	Deutsch DT04, 4-pole						5			
	Super Seal 1.5, 3-pole						6			
	Bayonet (DIN), 4-pole						7			
	Valve plug, 4-pole						8			
	MIL, 6-pole						A			
<b>Nominal, Fitting length:</b>	100 mm								100	
	150 mm								150	
	200 mm								200	
	250 mm								250	
	300 mm								300	
	350 mm								350	
	400 mm								400	
	Other length (please specify, at least 80 mm)								Y	
<b>Configuration:</b>	Factory set									0
<b>Special model:</b>	Non									0
	Yes (to specify)									1

Accessories: Compression fitting G1/2"