

# New flow sensor now also for smallest quantities



## Compact mechatronic inline flow meter with backflow prevention

- Measuring range from 0.2...4 l/min
- Compact design
- Very fast response time of  $\leq 10$  ms
- No inlet and outlet pipe lengths required
- Independent of pressure and temperature fluctuations



### **Mechatronic flow sensor**

The new mechatronic flow sensor of the SBY series functions using the principle of a spring-mounted piston. The piston, located in the valve seat in the housing, is lifted by the flowing medium against the spring resistance.

For binary signal output the piston position is detected by an inductive sensor. The spring resistance leads to reliable reset of the piston to its initial position with decreasing flow. This ensures position-independent installation of the flow sensor preventing backflow.


The switch points can be easily set and fixed via a setting screw. The robust mechanical design ensures use in harsh environments.

The units are maintenance-free.

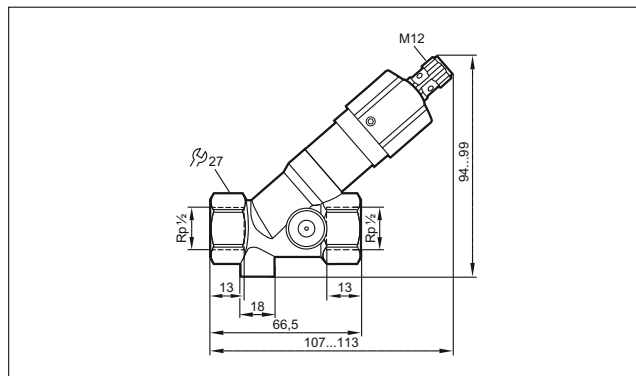


Type	Process connection	Measuring range [l/min]	Pressure resistance [bar]	Response time [ms]	Operating voltage [V]	Order no.
------	--------------------	-------------------------	---------------------------	--------------------	-----------------------	-----------

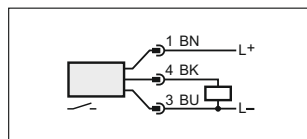
**M12 connector · electrical design DC PNP**

	Rp 1/2	0.2...4	80	≤ 10	24 DC	<b>SBY321</b>
---	--------	---------	----	------	-------	---------------


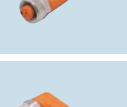




**Dimensions**



**Wiring**



**Connection technology**

Type	Description	Order no.
	M12 socket, 2 m black, PUR cable	<b>EVC001</b>
	M12 socket, 5 m black, PUR cable	<b>EVC002</b>
	M12 socket, 2 m black, PUR cable	<b>EVC004</b>
	M12 socket, 5 m black, PUR cable	<b>EVC005</b>
	M12 socket, 2 m orange, PVC cable	<b>EVT064</b>
	M12 socket, 5 m orange, PVC cable	<b>EVT001</b>

**Further technical data**

Current consumption	[mA]	< 15
Ambient temperature	[°C]	0...60
Protection rating, protection class		IP 65 / IP 67, III
Short-circuit protection		•
Overload protection		•
Housing materials		Brass chemically nickel-plated; anodised aluminium; PA
Materials in contact with the medium		High-grade stainless steel (301/1.4310); high-grade stainless steel (316/1.4401); PBT; brass chemically nickel-plated; PPS; O-ring: FKM Polyolefin
Connection		M12 connector