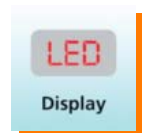


The smart float-type flow meter



New mechatronic inline volumetric flow sensors with display

- Optimised for water and oils
- Integrated temperature measurement
- No inlet and outlet pipe lengths required
- Red/green colour change for process values
- Very fast response time of < 10 ms




Mechatronic flow sensor

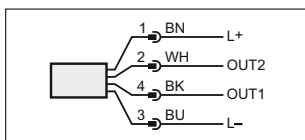
The flow sensor works on the principle of spring-supported piston: The piston, located in the valve seat in the housing, is lifted by the flowing medium against the spring.

The piston position is monitored via a magnetic field sensor and is output as an analogue signal. The spring forces the piston to return to its original position with decreasing flow. This ensures position-independent installation of the flow sensor preventing backflow. The sensor head can be rotated by 360° so that it can be read in any position.






Type	Measuring range [l/min]	Medium temperature [°C]	Response time [ms]	Max. operating pressure [bar]	Process connection	Order no.
M12 connector · electrical design DC PNP / NPN						
	0.3...15	-10...100	< 10	40	Rp 3/4	SBY232
	0.5...25	-10...100	< 10	40	Rp 3/4	SBY233
	1.0...50	-10...100	< 10	40	Rp 3/4	SBY234
	2.0...100	-10...100	< 10	25	Rp 1	SBY246
	4.0...200	-10...100	< 10	25	Rp 1 1/2	SBY257
	0.3...15	-10...100	< 10	40	G 1/2	SBG232
	0.5...25	-10...100	< 10	40	G 1/2	SBG233
	1.0...50	-10...100	< 10	40	G 1/2	SBG234
	2.0...100	-10...100	< 10	25	G 3/4	SBG246
	4.0...200	-10...100	< 10	25	G 1 1/4	SBG257

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

Common technical data

Type SBY, SBG		
Operating voltage	[V DC]	18...30
Current consumption	[mA]	< 50
Accuracy flow measurement		± (4 % MV + 1 % VMR)
Accuracy temperature monitoring		± 3 K
Protection rating, protection class		IP 65 / IP 67, III
Output 1		IO-Link, switching output, frequency output flow / temperature
Output 2		Switching output flow*, analogue output 4...20 mA flow or temperature

*available as from 09/2015