

Every drop counts

Mechatronic flow sensors designed for oils

- Precise measurements for viscosities from 5 to 320 cSt
- Fast flow or temperature changes do not affect the measurement
- High measurement dynamics reduces type versions
- For high-pressure applications up to 100 bar



ifm – close to you!

Process connection and pressure rating	Order no.								
	G ¾ – PN 100			G 1 – PN 100				G 1 ½ – PN 63	
Max. flow in l/min	15	25	50	15	25	50	100	100	200
ISO VG – 10 cSt	SB1232	SB1233	SB1234	–	–	–	SB1246	–	SB1257
ISO VG – 32 cSt	SB9232	SB9233	–	–	–	–	–	–	–
ISO VG – 46 cSt	SB2232	SB2233	SB2234	–	–	–	SB2246	–	SB2257
ISO VG – 68 cSt	SB3232	SB3233	–	–	–	SB3244	SB3246	–	SB3257
ISO VG – 100 cSt	SB4232	–	–	–	SB4243	SB4244	–	SB4256	SB4257
ISO VG – 150 cSt	–	–	–	SB5242	–	SB5244	–	SB5256	–
ISO VG – 220 cSt	–	–	–	SB6242	SB6243	–	–	–	–
ISO VG – 320 cSt	–	–	–	SB7242	SB7243	SB7244	–	SB7256	SB7257

Easily withstands even the harsh environments of heavy industry

The rougher the process environment, the higher the stress that the sensors need to withstand. For such conditions, the SB mechatronic flow sensor, specifically suited for viscous oils, is the right choice.

It provides the perfect combination of accuracy, flexibility and robustness required in heavy industry or in the steel industry. The sensor easily deals with high pressures, temperature fluctuations and air bubbles in the medium.

High performance

Due to the use of application-specific mechanics and a complex adjustment carried out during production, the SB, like all other sensors of this series, is designed for maximum precision and minimum response time. Even with fluctuating temperature and viscosity values, the integrated temperature compensation and special oil calibration guarantee precise measurement results.

Common technical data	
Accuracy flow measurement	± 5 % of the final value*
Repeatability	± 1 %
Accuracy temperature measurement	3 K (25 °C; Q > 1 l/min)
Response time [s]	0.01
Medium temperature [°C]	-10...100
Pressure rating [bar]	up to 100
Output signal	IO-Link (configurable), switching output, frequency output, flow / temperature
Protection rating	IP65 IP67

* Q > 1 l/min; 20...70 °C medium temperature

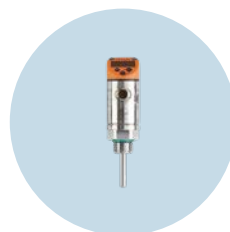
BEST FRIENDS



Level sensor
Detects minimum levels, overflow or leakage



Pressure sensor with display
Precisely detects tank pressures and levels



Temperature sensor with display
Highly accurate measured values with local display



For further technical details, please visit: ifm.com/fs/SB1232