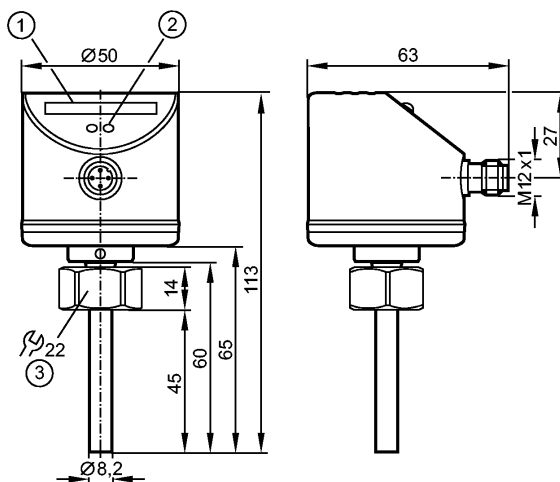


SI0557

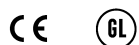
SID10ADBFPKG/US-100

Flow sensors



- 1: LED display
2: setting pushbutton
3: tightening torque 25 Nm

Made in Germany


Product characteristics

Flow monitor
Compact type for adapter
Process connection: internal thread M18 x 1.5 for adapter
Probe length: 45 mm
2 switching outputs
Setting range: 3...300 cm/s

Application

Application	liquids
Medium temperature [°C]	-15...70

Electrical data

Electrical design	DC PNP
Operating voltage [V]	24 DC; (18...32 DC)
Current consumption [mA]	< 60
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	1 x normally open / 1 x normally closed programmable
Current rating [mA]	2 x 250
Voltage drop [V]	< 2.5
Short-circuit protection	pulsed
Overload protection	yes

Measuring / setting range

Setting range [cm/s]	3...300
Greatest sensitivity [cm/s]	3...100

Accuracy / deviations

Switch point accuracy [cm/s]	± 10 *)
Hysteresis [cm/s]	2...5 *)
Repeatability [% of Sr]	1...5 *)

SI0557

SID10ADBFPKG/US-100

Flow sensors

Temperature drift	[cm/s x 1/K]	0.1 **)
Max. temperature gradient of medium	[K/min]	300

Reaction times

Power-on delay time	[s]	10
Response time	[s]	1...10

Software / programming

Adjustment of the switch point	pushbuttons
--------------------------------	-------------

Environment

Bursting pressure [bar]	300
Nominal pressure [bar]	75
Ambient temperature [°C]	-25...80
Storage temperature [°C]	-25...100
Protection	IP 67

Tests / approvals

EMC	DIN EN 61000-4-2 ESD: 6 kV CD / 8 kV AD DIN EN 61000-4-3 HF radiated: 10 V/m DIN EN 61000-4-4 Burst: 2 kV DIN EN 61000-4-5 Surge: 0.5 kV / 1 kV DIN EN 61000-4-6 HF conducted: 10 V
Shock resistance	DIN EN 60068-2-27: 50 g (11 ms)
Vibration resistance	1.6 mm (2...25 Hz) / 20 g DIN EN 60068-2-6: (25...2000 Hz)
MTTF [Years]	267

Mechanical data

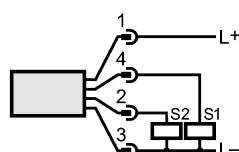
Process connection	internal thread M18 x 1.5 for adapter
Materials (wetted parts)	stainless steel 316L / 1.4404; O-ring: FKM 8 x 1.5 gr 80° Shore A
Housing materials	stainless steel 316L / 1.4404; stainless steel (301 S 22); PC (polycarbonate); PBT-GF 20; EPDM/X
Probe length L [mm]	45
Weight [kg]	0.256

Displays / operating elements

Function display	LED	10 LEDs, three-colour
------------------	-----	-----------------------

Electrical connection

Connection	M12 connector
------------	---------------

Wiring

Remarks

Remarks	*) for water; 5...100 cm/s; 25°C (factory setting) **) for water; 5...100 cm/s; 15...70°C
Pack quantity [piece]	1



SI0557

SID10ADBFPKG/US-100

Flow sensors