SBT633
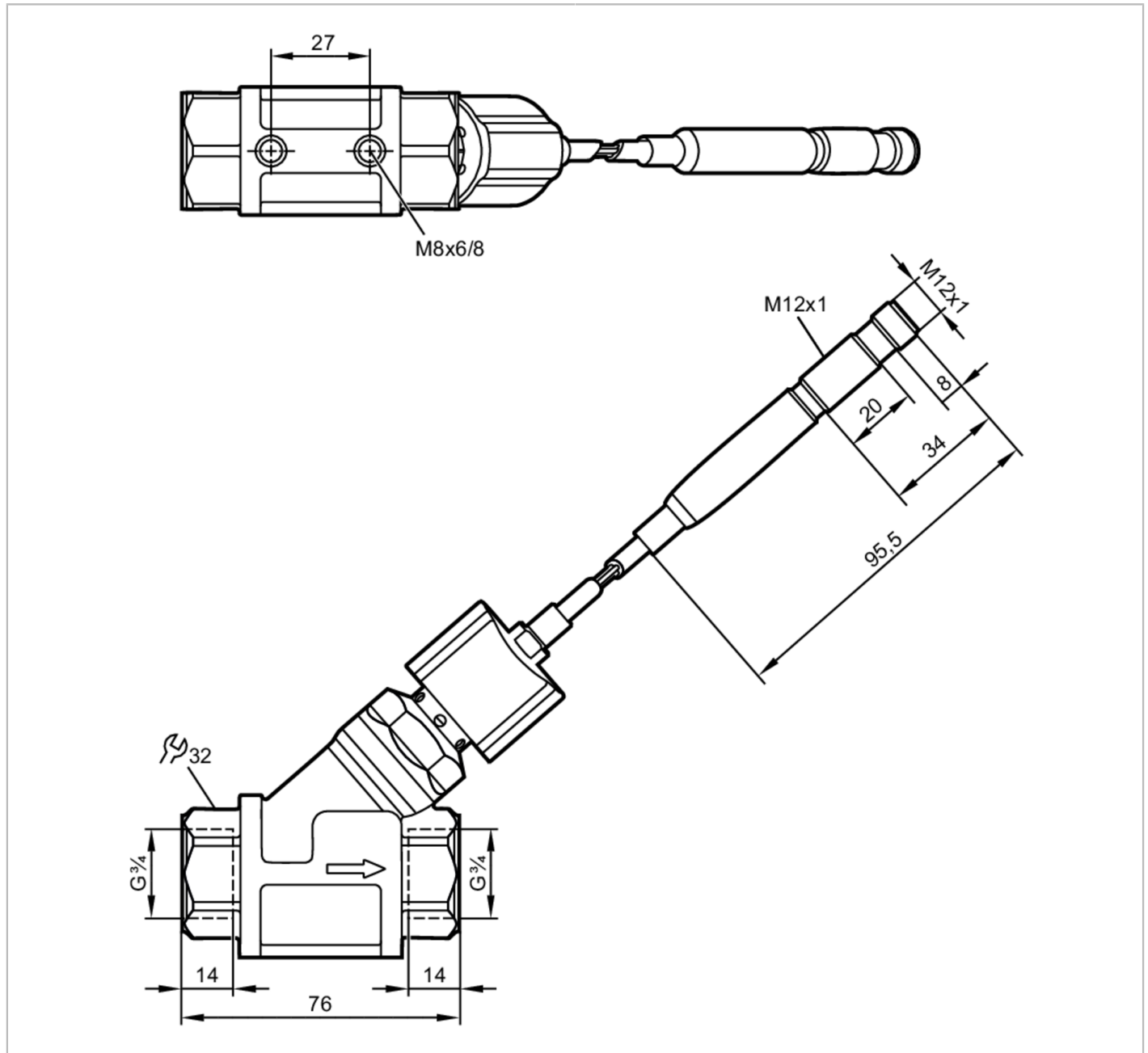
Flow transmitters with fast response time

SBT34XKX10KG/O/US

Product characteristics

Measuring range	[l/min]	0.3...25
Process connection		G 3/4

Application

Media		Liquids; water; glycol solutions
Medium temperature	[°C]	10...180
Pressure rating	[bar]	30
Pressure rating	[MPa]	3
Note on pressure rating		static

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Electrical data	
Operating voltage tolerance [%]	-15...10
Operating voltage [V]	24 DC; (to SELV/PELV)
Current consumption [mA]	< 35
Protection class	III
Reverse polarity protection	yes

Outputs	
Output signal	analog signal
Analog current output [mA]	4...20
Max. load [Ω]	500
Short-circuit protection	yes
Overload protection	yes

Measuring/setting range	
Measuring range [l/min]	0.3...25

Accuracy / deviations	
Repeatability [% of the final value]	1
Measuring error [% of the final value]	± 5

Reaction times	
Response time [s]	< 0.01

Operating conditions	
Ambient temperature [°C]	0...60
Storage temperature [°C]	-15...80
Protection	IP 65; IP 67

Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	20 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	5 g (10...2000 Hz)
MTTF [years]	1380	

Mechanical data	
Weight [g]	680.05
Material	brass white bronze coated; PPS; copper alloy; aluminum anodized; PEI; silicone; O-ring: EPDM; FKM
Materials (wetted parts)	stainless steel (1.4401 / 316); stainless steel (1.4301 / 304); brass; brass chemically nickel-plated; PPS; O-ring: FKM; magnet: Metalllegierung nickel-plated; Two-component adhesive
Process connection	G 3/4
Switching cycles mechanical	10 million

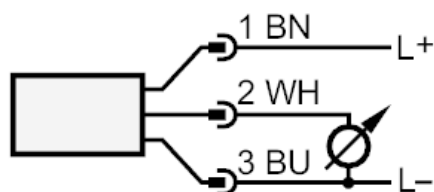| Remarks	
Remarks	Recommendation Use 200 micron filtration
	All data refer to water (20 °C).
Pack quantity	1 pcs.

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Electrical connection

Cable: 0.3 m, silicone

Connection

Colors to DIN EN 60947-5-2
Core colors :

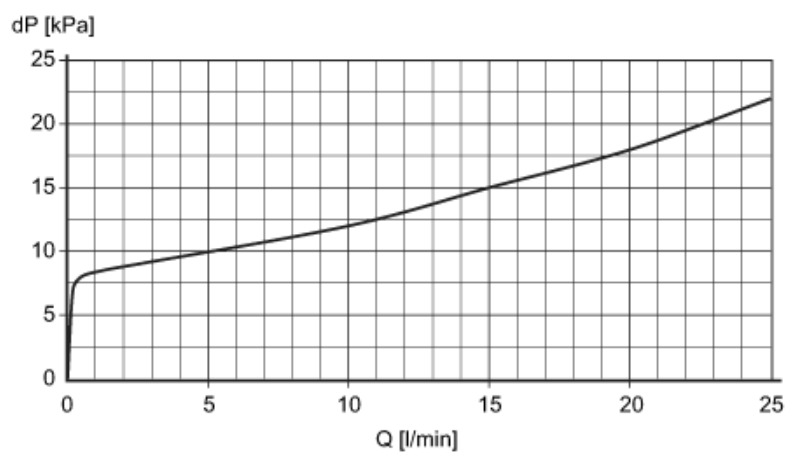|	
BN =	brown
BU =	blue
WH =	white

Diagrams and graphs

dP   Pressure loss

Q   volumetric flow quantity