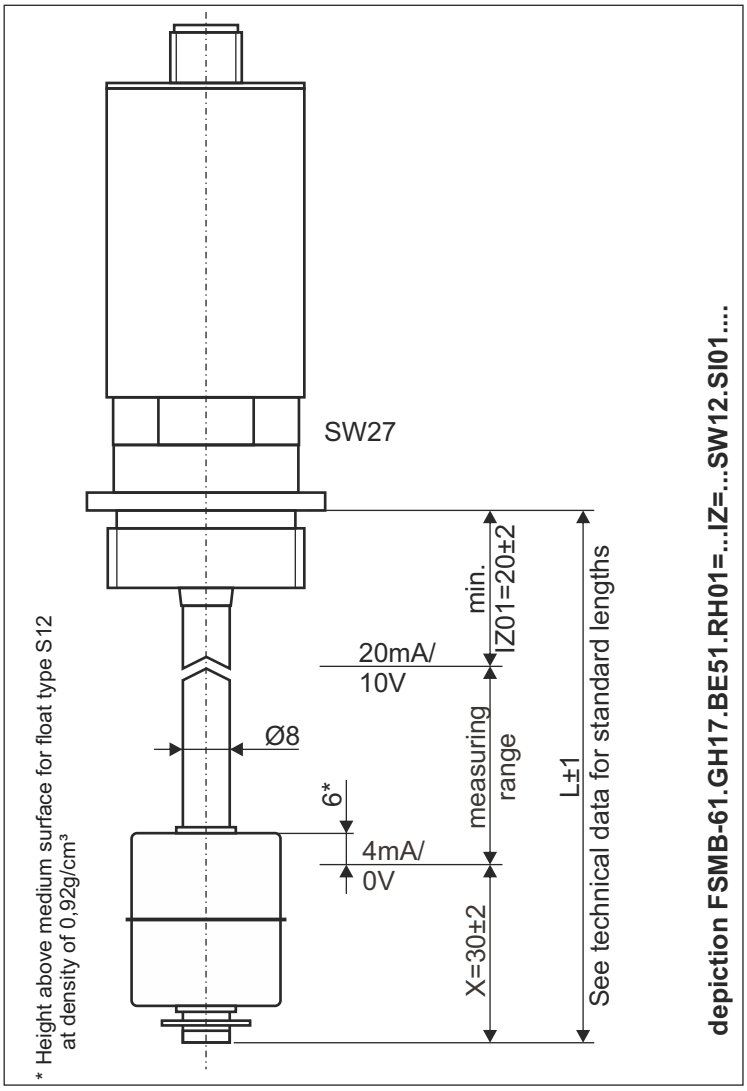
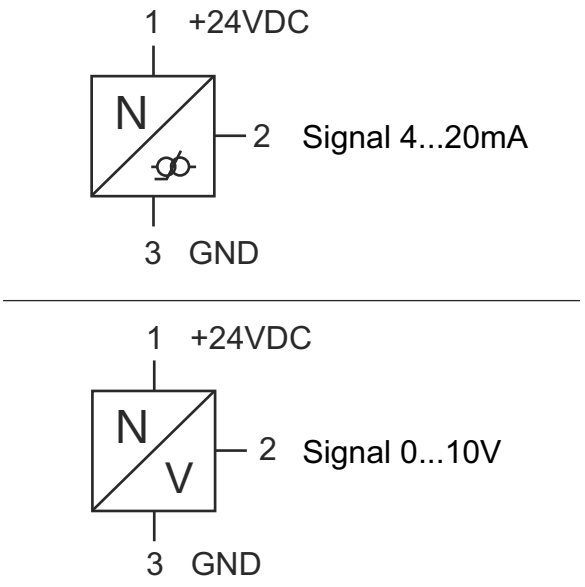
Data sheet
Analogue level measurement
Type: FSMB-61....



Termianl diagram



Technical data

Connection:	connector M12x1 4-pole, material TPU on housing see order key
Process connection:	see order key
Tube:	Ø8mm or Ø12mm, material brass, stainless steel, PP or PVDF standard lengths brass /stainless steel 85, 120, 140, 160, 175, 195, 205, 230, 260±1mm standard lengths PP 85, 120, 140, 160, 175, 195, 205, 230, 260±1mm standard lengths PVDF 90, 125, 145, 165, 150, 200, 210, 235, 265±1mm length as specified, max. length 600mm, With a purchase quantity of 500 pieces, lengths of up to 600 mm possible.
Float:	Ø27x31mm, material stainless steel, type S12 Ø25x21mm, material PP, type S30 Ø25x21mm, material PVDF, type S66 Ø35x40mm, material stainless steel, type S4 Ø40x40mm, material PP, type S2
Function:	magnetostrictive measuring principle, output signal 0...10V or 4...20mA over measuring range
Resolution:	0,1mm
Nonlinearity:	±0,15mm
Repeatability:	25µm im measuring range
Measuring range:	4...20mA over a length of L - IZ - X =measuring range in mm 0...10V over a length of L - IZ - X =measuring range in mm
Supply voltage:	24VDC ±15%, protected against voltage reversal
Pressure:	max. 1 bar
Operating temperature:	float stainless steel: -20°C to 100°C in medium, -20°C to 70°C above mounting float PP: -15°C to 80°C in medium, -20°C to 70°C above mounting float PVDF: -20°C to 75°C im medium, -20°C to 70°C above mounting
Protection rating:	IP 65

Data sheet
Analogue level measurement
Type: FSMB-61....

Order key

FSMB-61. GH18. BE49. RH02=350. IZ01=25. SW12. SI01. BT01

Housing:
GH18 = Ø33 stainless steel
GH17 = Ø33 alu
GH19 = Ø36 PP
GH20 = Ø36 PVDF

Process connection: see table 1
BE51 = 1” alu
BE49 = 1" stainless steel
BE71 = 1" form A PP
BE70 = 1" form A PVDF
BE63 = 1 1/4" stainless steel
BE29 = 1 1/2" alu
BE36 = 1 1/2" stainless steel
BE26 = 1 1/2" PP
BE38 = 2" stainless steel
BE09 = 2" PP
BE21 = flange 80x50 PA

Tube: see table 1
RH01 = ø8mm brass
RH02 = ø8mm stainless steel
RH03 = ø12mm brass
RH09 = ø12mm stainless steel
RH10 = Ø8mm PP
RH04 = Ø12mm PP
RH11 = Ø8mm PVDF
total length L e.g.: 350mm

Inactive zone above:
IZ01= e.g. 35mm

Float: see table 2
SW30 = float S30
SW12 = float S12
SW04 = float S4
SW02 = float S2
SW66 = float S66

Output:
SI01 = 0...10V
SI02 = 4...20mA

Temperature class: see table 3
BT01= -20°C...100°C
BT03= -15°C...80°C
BT05 = -20°C ...75°C

Data sheet
Analogue level measurement
Type: FSMB-61....

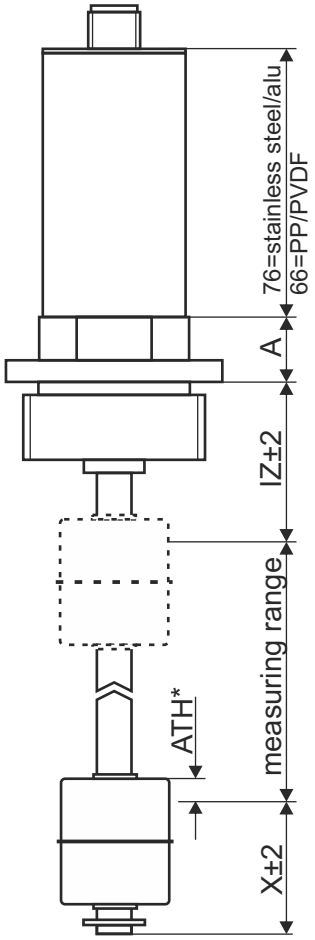


Table 1	Process connection BExx										
Tube RHxx	BE51	BE49	BE71	BE70	BE63	BE29	BE36	BE26	BE38	BE09	BE21
RH01	✓	✓	–	–	✓	✓	✓	–	✓	–	✓
RH02	✓	✓	–	–	✓	✓	✓	–	✓	–	✓
RH03	–	–	–	–	–	✓	✓	–	✓	–	✓
RH09	–	–	–	–	–	✓	✓	–	✓	–	✓
RH10	–	–	✓	–	–	–	–	–	–	–	–
RH04	–	–	–	–	–	–	–	✓	–	✓	–
RH11	–	–	–	✓	–	–	–	–	–	–	–

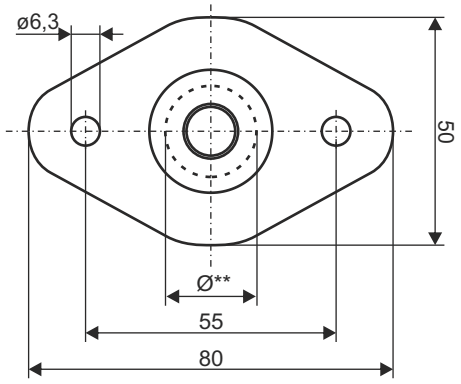
Table 2	Process connection BExx										
Float SWxx	BE51	BE49	BE71	BE70	BE63	BE29	BE36	BE26	BE38	BE09	BE21
SW30	✓	✓	✓	✓	✓	✓	✓	–	✓	–	✓
SW12	✓	✓	✓	✓	✓	✓	✓	–	✓	–	✓
SW04	–	–	–	–	–	✓	✓	–	✓	–	–
SW02	–	–	–	–	–	✓	✓	✓	✓	✓	✓
SW66	✓	✓	✓	✓	✓	✓	✓	–	✓	–	✓

		BE51	BE49	BE71	BE70	BE63	BE29	BE36	BE26	BE38	BE09	BE21
SW30	IZ	20	23	20	27	28	28	26	–	30	–	16
	X	20	20	20	20	20	20	20	–	20	–	20
SW12	IZ	20	23	–	–	27	28	25	–	29	–	15
	X	30	30	–	–	30	30	30	–	30	–	30
SW04	IZ	–	–	–	–	–	35	32	–	36	–	–
	X	–	–	–	–	–	45	45	–	45	–	–
SW02	IZ	–	–	–	–	–	32	30	31	33	33	19
	X	–	–	–	–	–	35	35	35	35	35	35
SW66	IZ	16	18	16	23	23	24	21	–	21	–	11
	X	24	24	24	24	24	24	24	–	24	–	24
measure A		19	19	19	10	15	17	17	17	20	17	22

IZ - min. min. distance Inactive Zone
* S30 - ATH=7 at density of 0,87g/cm³
S12 - ATH=6 at density of 0,92g/cm³
S2 - ATH=10 at density of 0,92g/cm³
S4 - ATH=12 at density of 0,997g/cm³
S66 - ATH=2 at density of 0,997g/cm³

Data sheet
Analogue level measurement
Type: FSMB-61....

Drilling pattern **BE21**



**Float-through hole