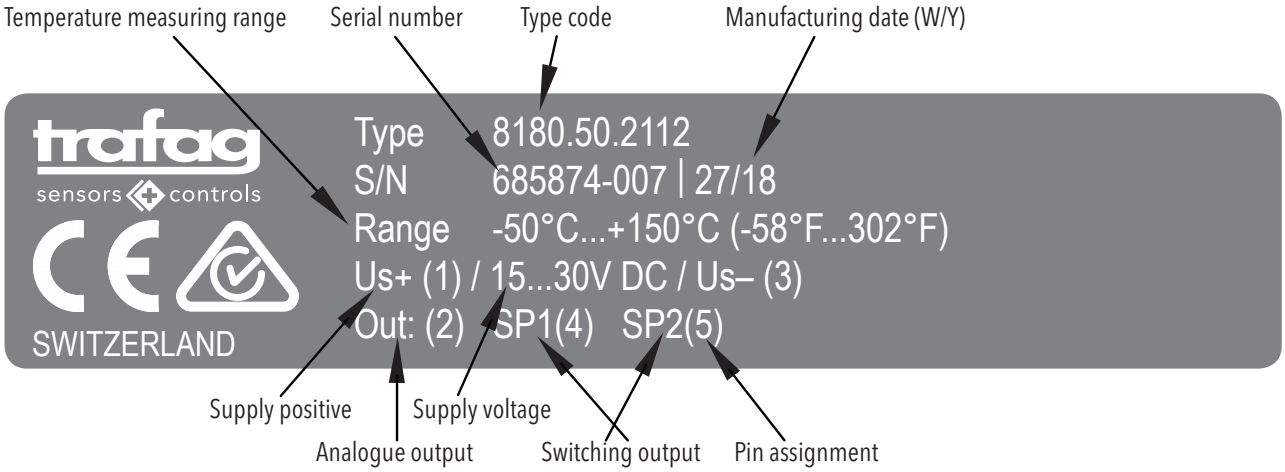
Technical specification

Ambient temperature:	– 25°C ... +85°C (housing and display)
Media temperature:	– 50°C ... +150°C
Protection:	IP67
Display unit:	°C, °F, K
Switching current:	Max. 0.5 A per switching output
Parametrisation:	With 3 buttons and menu navigation or via NFC - Smartphone App

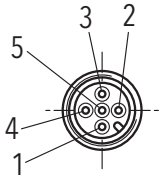
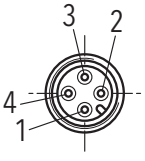
GET IT ON Google Play

Sensor Master by Trafag AG

Type label description



Electrical connection

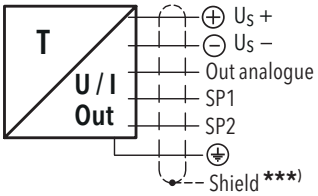
Ingress Protection	IP67*)	IP67*)
Designation	M12x1 5-pole	M12x1 4-pole
Type code	**8180**.XX.XXXX.**35**	**8180**.XX.XXXX.**32**
Pin configuration		

*) Provided female connector is mounted according to instructions

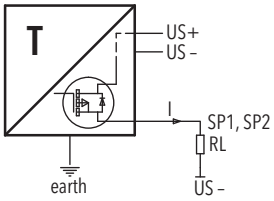
Output signal / supply voltage

Output	**I_{SUPPLY}**	**U_{SUPPLY}**
4 ... 20 mA	≤ 30 mA	15 ... 30 VDC
0 ... 10 VDC	≤ 30 mA	15 ... 30 VDC
0 ... 5 VDC	≤ 30 mA	15 ... 30 VDC
1 ... 6 VDC	≤ 30 mA	15 ... 30 VDC

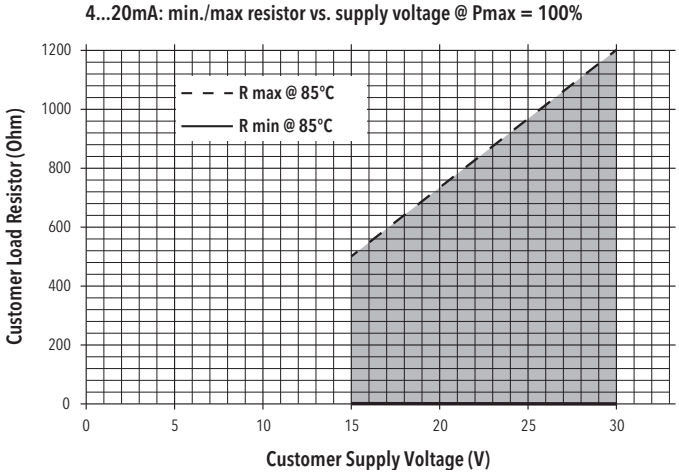
Connection of the measuring equipment



***) The use of a shielded cable is recommended



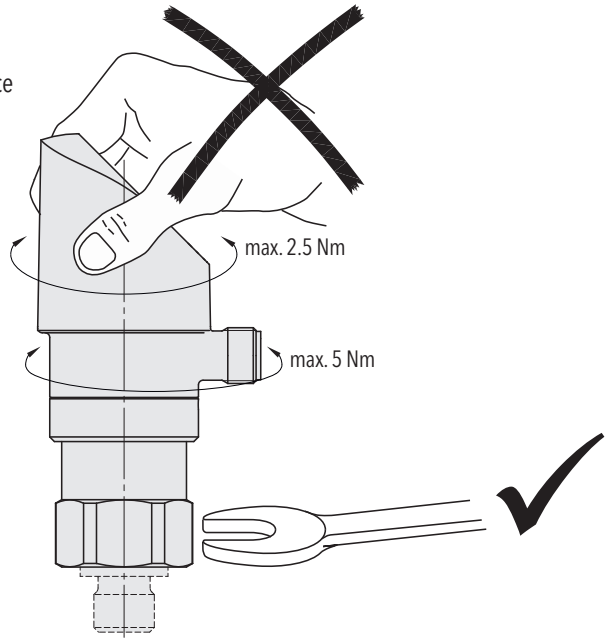
Connection of loads to switching output



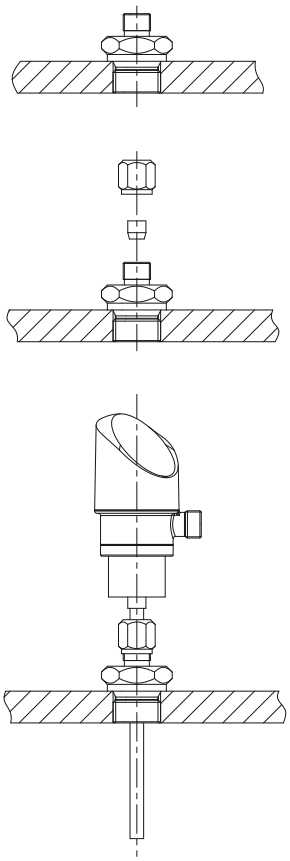
Mounting

Direct mounting

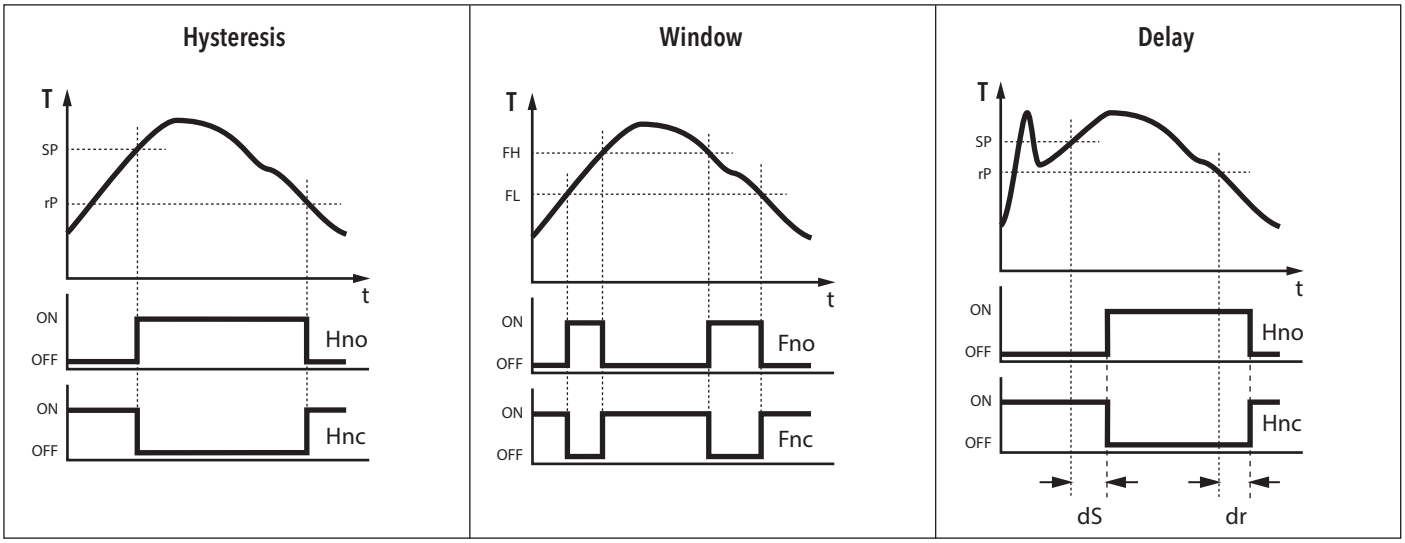
Tighten the device



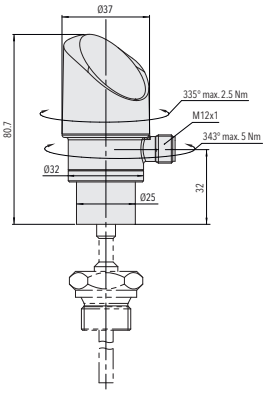
Compression fitting

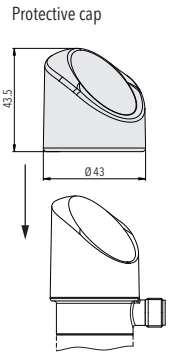


Switching output functions

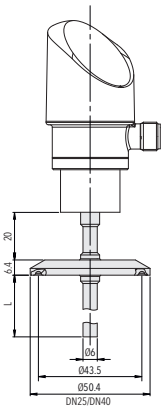


Dimensions

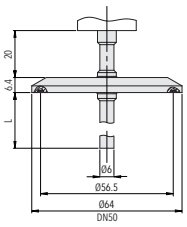




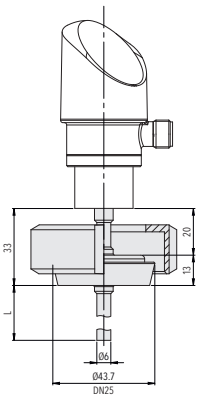
8180.XX.XXXX.**35/32**.XX.XX.XX



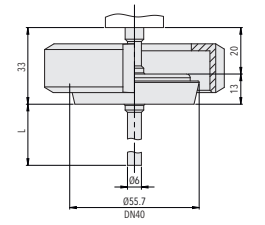
8180.XX.XXXX.**1G/2G/3G/4G/5G**...



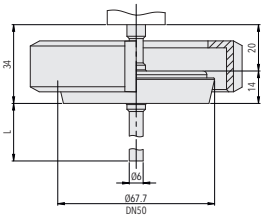
8180.XX.XXXX.**1J/2J/3J/4J/5J**...



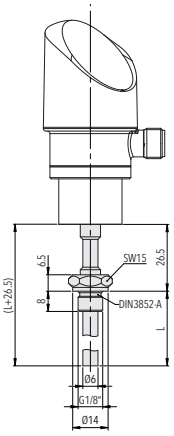
8180.XX.XXXX.**1L/2L/3L/4L/5L**...



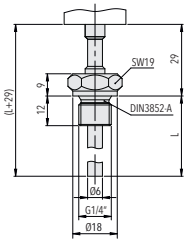
8180.XX.XXXX.**1M/2M/3M/4M/5M**...



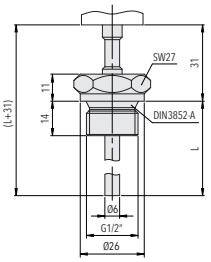
8180.XX.XXXX.**1N/2N/3N/4N/5N**...



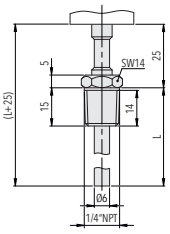
8180.XX.XXXX.**11/21/31/41/51**...



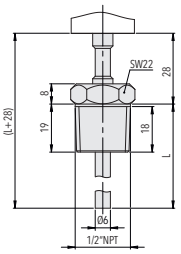
8180.XX.XXXX.**12/22/32/42/52**...



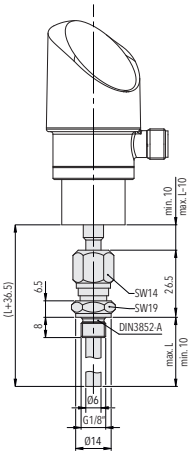
8180.XX.XXXX.**13/23/33/43/53**...



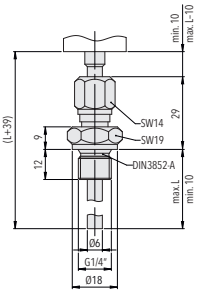
8180.XX.XXXX.**1B/2B/3B/4B/5B**...



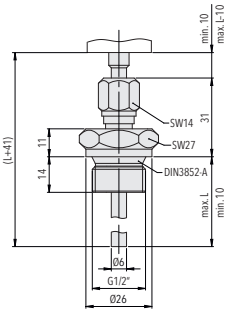
8180.XX.XXXX.**1C/2C/3C/4C/5C**...



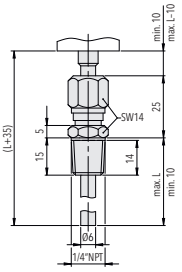
8180.XX.XXXX.**14/24/34/44/54**...



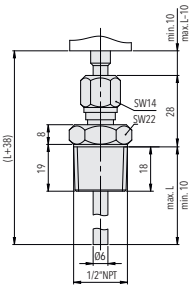
8180.XX.XXXX.**15/25/35/45/55**...



8180.XX.XXXX.**16/26/36/46/56**...

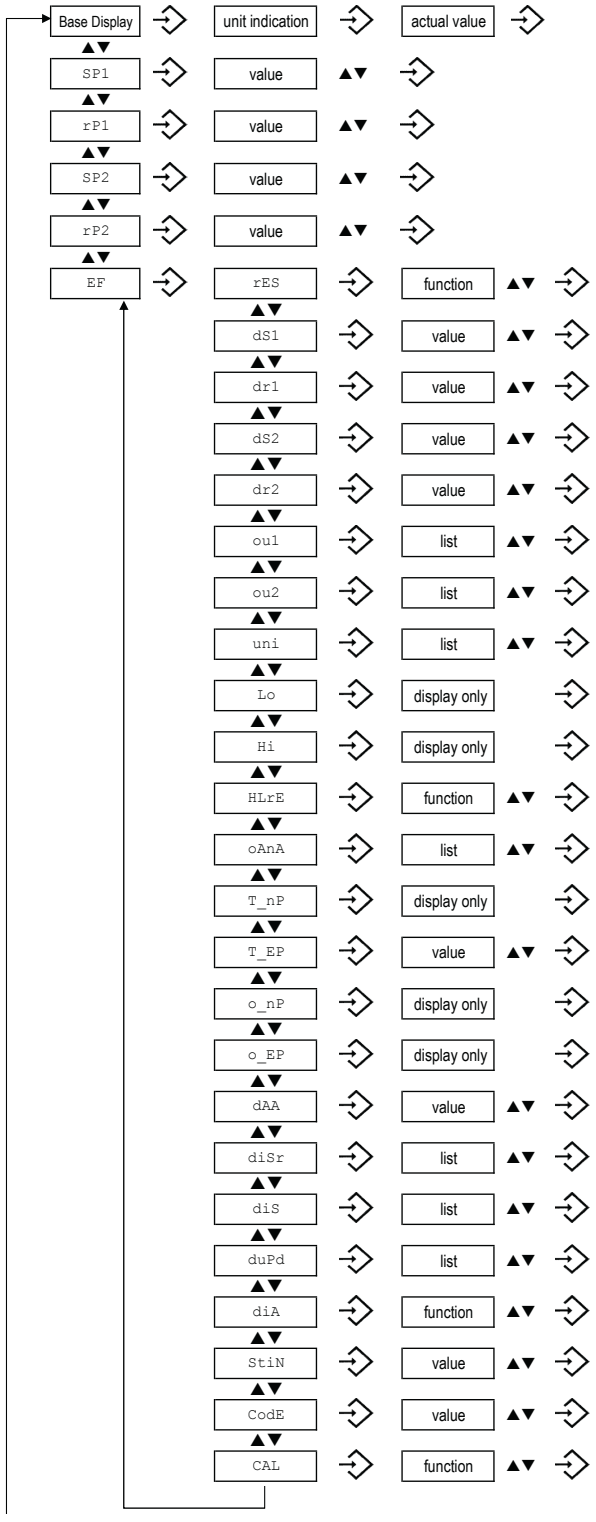


8180.XX.XXXX.**1D/2D/3D/4D/5D**...

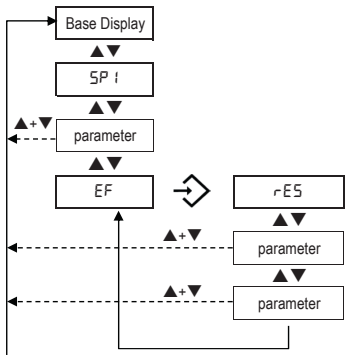


8180.XX.XXXX.**1E/2E/3E/4E/5E**...

Operating menu



Description	Value range
Switch point SP1 (Hysteresis) or Window high FH1	SP1 > rP1, FH1 > FL1 Hysteresis ≥ 1 % FS
Reset point rP1 (Hysteresis) or Window low FL1	rP1 < SP1, FL1 < FH1 Hysteresis ≥ 1 % FS
Switch point SP2 (Hysteresis) or Window high FH2	SP2 > rP2, FH2 > FL2 Hysteresis ≥ 1 % FS
Reset point rP2 (Hysteresis) or Window low FL2	rP2< SP2, FL2 < FH2 Hysteresis ≥ 1 % FS
Reset to factory settings	
Switching delay time for SP1/FH1	0.01 ... 99.99s
Switching delay time for rP1/FL1	0.01 ... 99.99s
Switching delay time for SP2/FH2	0.01 ... 99.99s
Switching delay time for rP2/FL2	0.01 ... 99.99s
Function switching output 1	Hysteresis NO (Hno), Hysteresis NC (Hnc) Window NO (Fno), Window NC (Fnc)
Function switching output 2	Hysteresis NO (Hno), Hysteresis NC (Hnc) Window NO (Fno), Window NC (Fnc)
Temperature unit	°C, °F, K
Lowest measured temperature	
Highest measured temperature	
Reset highest and lowest temperature value	
Analogue output type	I, U, off
Temperature zero point	
Temperature end point	50 % ... 100 % FS
Analogue output zero point	
Analogue output end point	
Damping analogue output rise time 10 ... 90 % nominal temperature	0.01 ... 3.00 s
Display rotate	no, yes (180°)
Display mode	actual, highest, lowest, off, act. – 1 decimal, act. – 2 dec., act. – 3 dec.
Display update rate	1, 2, 5, 20 Hz
Diagnostic mode	
Sampling time for logger	0.1 ... 999.9 s, off (0)
Access code	4-digit code
Factory use	



By pressing ▲+▼ simultaneously the menu will return to the base display or automatically after ca. 60 s without operation.

pw* When performing a parameter change by pressing ▲ or ▼ and if an access code has been defined, it has to be entered digit by digit.

After confirming the new parameter value, the menu item of the changed parameter will be displayed.