

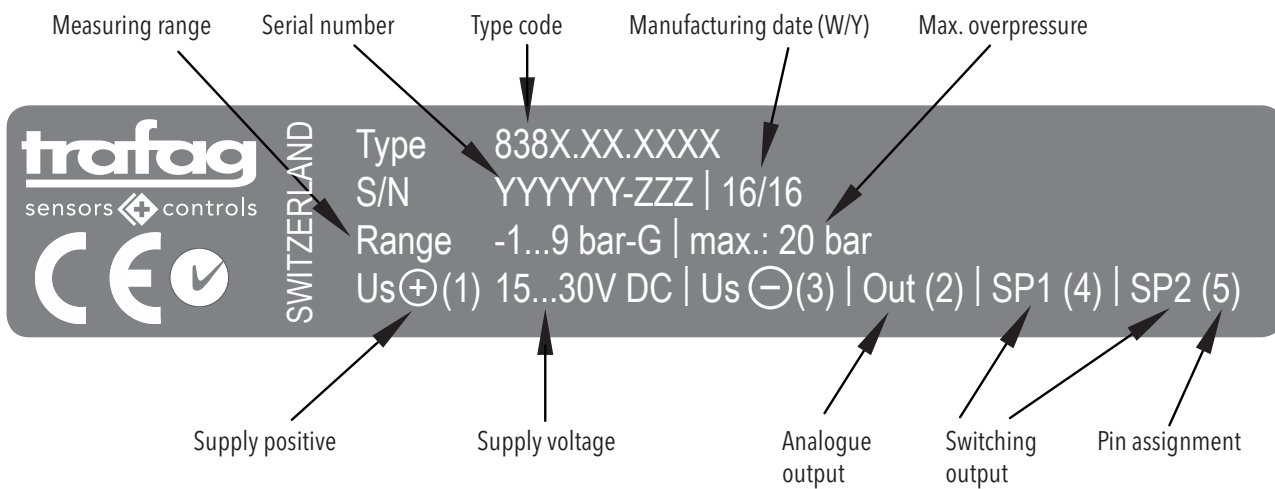


Sensor Master by Trafag AG

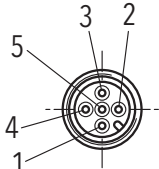
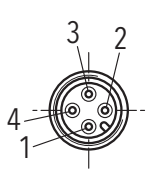
**Technical specification**

Mounting torque: 15 ... 20 Nm  
 Ambient temperature: -25°C ... +85°C  
 Media temperature: -25°C ... +85°C  
 Protection: IP67  
 Display pressure unit: bar, psi, MPa, kPa, mWC, mmWC, inchWC, %, user scale  
 Switching current: Max. 0.5 A per switching output  
 Parametrisation: With 3 buttons and menu navigation or via NFC - Smartphone App

**Type label description**



**Electrical connection**

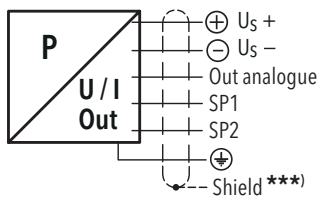
<b>Ingress Protection</b>	IP67*)	IP67*)
<b>Designation</b>	M12x1 5-pole	M12x1 4-pole
<b>Type code</b>	838X.XX.XXXX <b>35</b>	838X.XX.XXXX <b>32</b>
<b>Pin configuration</b>		

\*) Provided female connector is mounted according to instructions

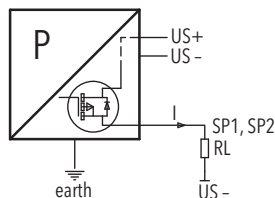
**Output signal / supply voltage**

Output	I <sub>SUPPLY</sub>	U <sub>SUPPLY</sub>
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

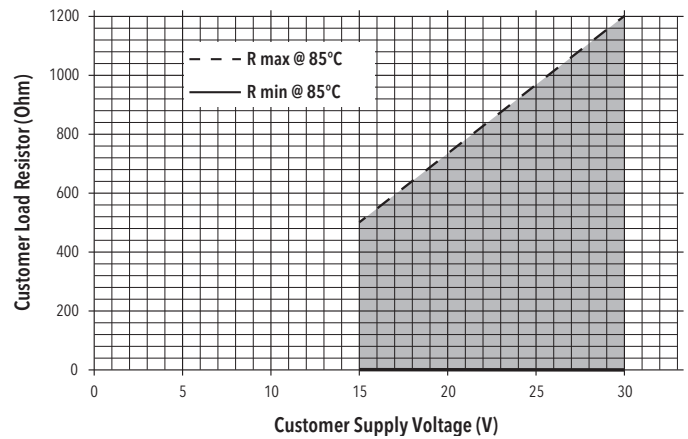


\*\*\*) The use of a shielded cable is recommended



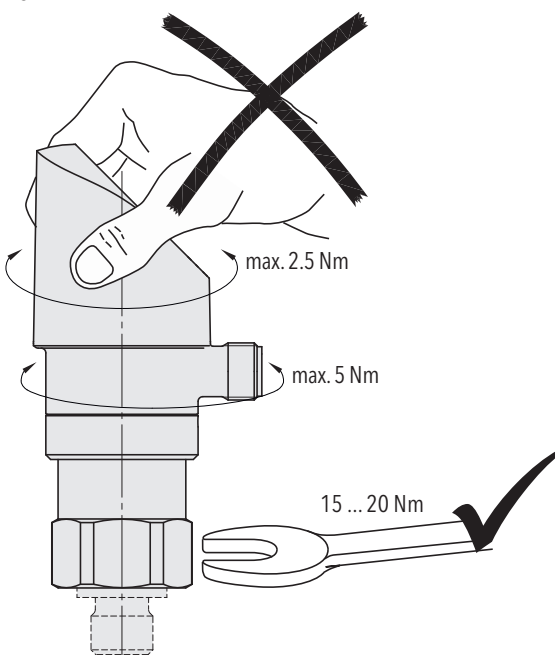
Connection of loads to switching output

4...20mA: min./max resistor vs. supply voltage @ Pmax = 100%



## Mounting

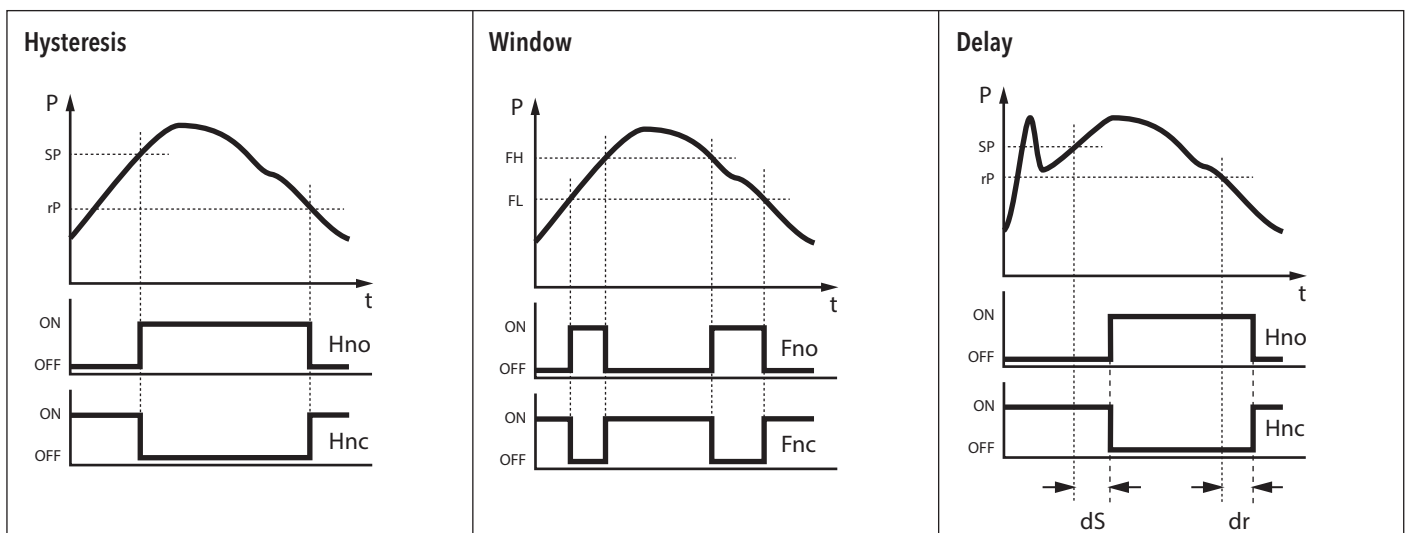
Tighten the device



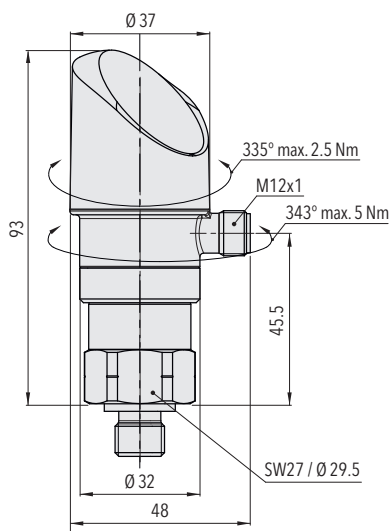
## Display indication

	Description
OL	The measured pressure is >3% above the measuring range end-point → The indication disappears as soon as the pressure is reduced again
UL	The measured pressure is >3% below the measuring range zero-point → The indication disappears as soon as the pressure is reduced again
Perr	Signal processing is faulty. → Please replace measuring device
FALS	Incorrect access code → Enter the correct access code
Sbrk	Sensor break; the sensor element is defective → Please replace the pressure measuring device
Fi2c	Internal device communication is interrupted → Please replace the pressure measuring device
Ecrc	Internal memory damage occurred → Execute a factory reset. If the recovery is not successful, replace the pressure measuring device
FE2P	Internal memory damage occurred → Execute a factory reset. If the recovery is not successful, replace the pressure measuring device
EnFc	NFC communication was not successful → Try again to communicate again. If the error persists, replace the pressure measuring device
E.OFC	Zero-set out of range The measured pressure value is outside of the valid range for the zero-set function → Press [Enter] → on the measuring device to reset the error indication This error indication does not appear when performing the zero-set function by means of the Sensor Master App (Android smartphone)

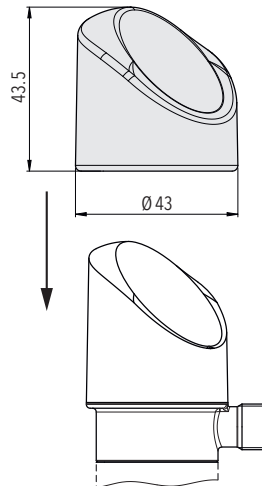
## Switching output functions



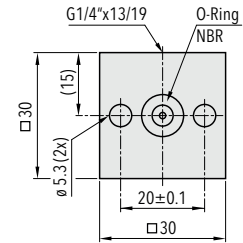
# Dimensions



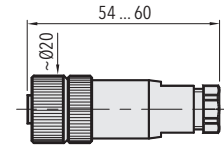
Protective cap



Flange adapter

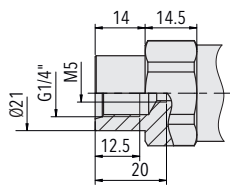


**F82054**  
Mounting accessory included

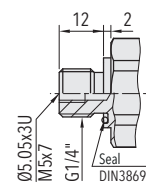


838X.XX.XXXX.35/32.XX.XX

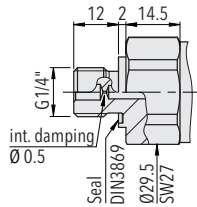
838X.XX.XXXX.XX.XX.33



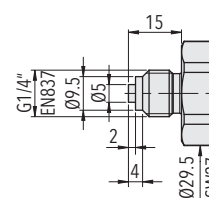
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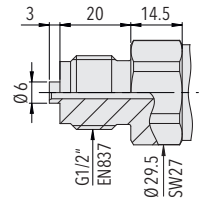
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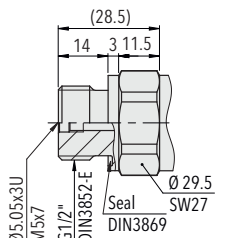
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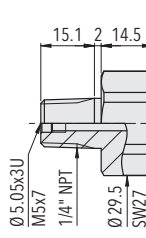
838X.XX.XX53.XX.XX.XX



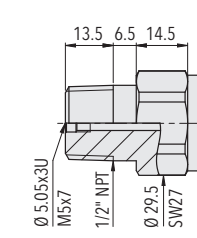
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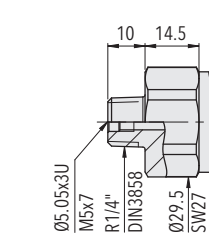
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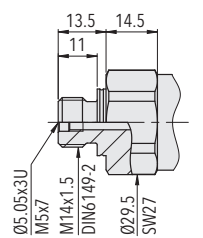
838X.XX.XX30.XX.XX.XX



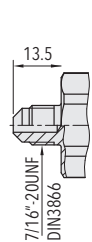
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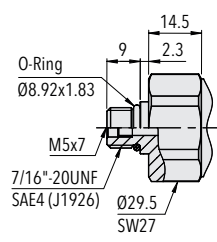
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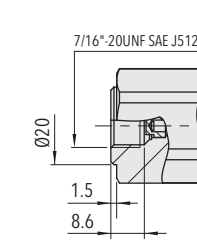
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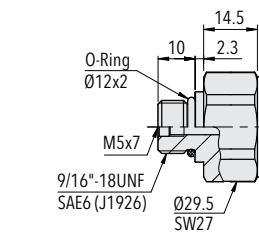
838X.XX.XX18.XX.XX.XX



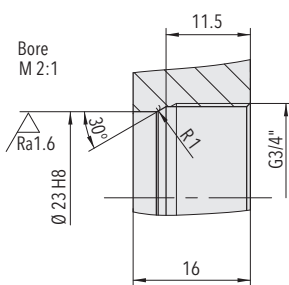
838X.XX.XX42.XX.XX.XX



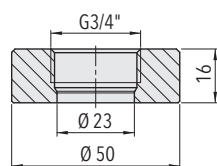
838X.XX.XX24.XX.XX.XX



838X.XX.XX61.XX.XX.XX

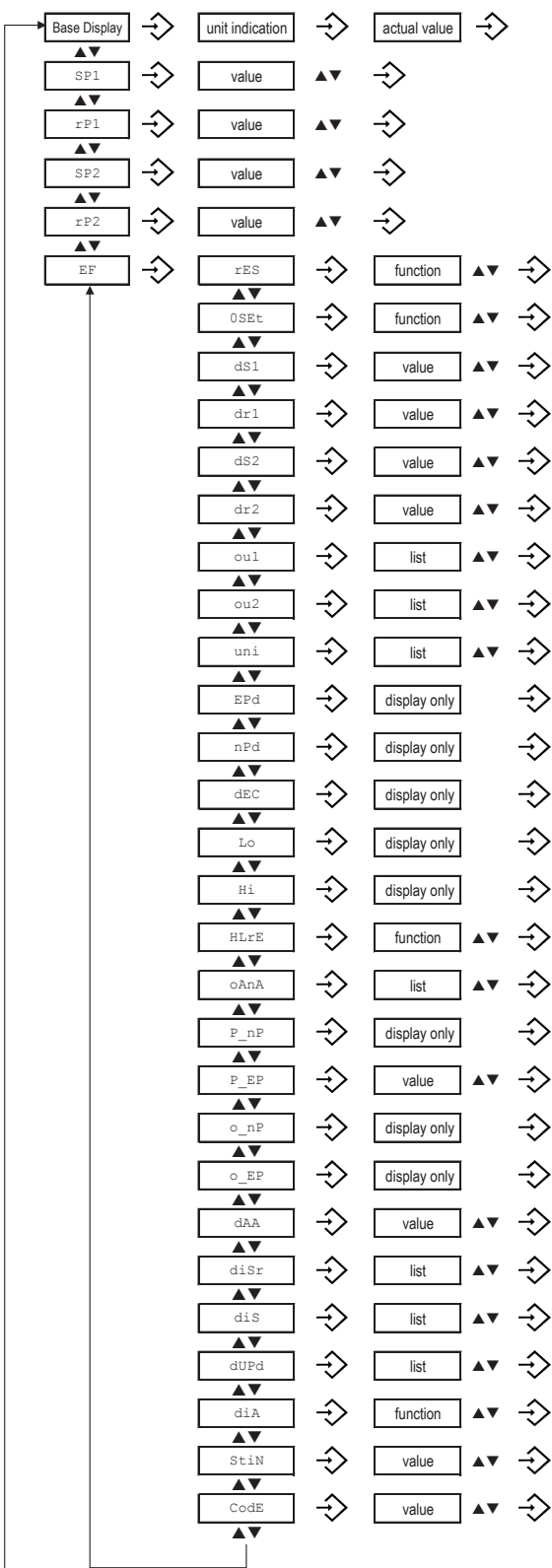


8380.XX.XX52.XX.XX.XX



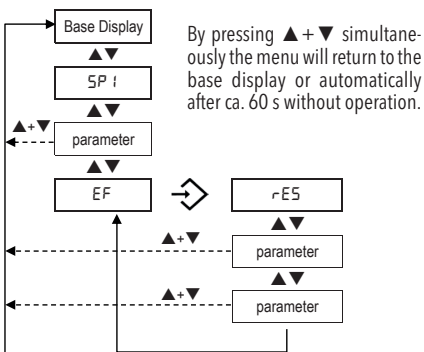
Welding flange for G3/4" frontal membrane (1.4301)  
Ordering No. C27805

# 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	
Zero set, offset correction <sup>1)</sup>	± 2 % FS
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)
Pressure unit	bar / MPa / kPa / psi / mWC / mmWC / inchWC / % / user scale <sup>1)</sup>
End-point display value (option user scale unit)	-998 ... 9999 <sup>1)</sup>
Zero-point display value (option user scale unit)	-999 ... 9998 <sup>1)</sup>
Decimal point (option user scale unit)	0, 1, 2, 3 (value depending)
Lowest measured pressure	
Highest measured pressure	
Reset highest and lowest pressure value	
Analogue output type	I, U, off
Pressure zero-point	0 % ... 50 % FS <sup>1) 2)</sup>
Pressure end-point	50 % ... 100 % FS <sup>2)</sup>
Analogue output zero-point	Voltage: 0 ... 2 VDC Current loop: 3.9 ... o_EP - 8 mA <sup>1)</sup>
Analogue output end-point	Voltage: o_nP + 4 ... 10.5 VDC Current loop: o_nP + 8 ... 20.1 mA <sup>1)</sup>
Damping analogue output rise time 10 ... 90 % nominal pressure	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

<sup>1)</sup> optional function package  
<sup>2)</sup> P\_EP - P\_nP ≥ 50 % FS



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.