Sensors for explosive areas without amplifier for liquid media | ST 103 S

- G1/2 screw-in sensor for flow monitoring in liquid media
- ATEX approval for operation in Zone 1 and Zone 21
- Medium temperature up to 85°C
- Corrosion-proof stainless steel housing AISI 316 Ti
- Immersion depth 48 mm
- M12 plug system
- Installation in T-piece or welding sleeve
- Needs ATEX certified amplifier with analogue or switching output

G1/2 - sensor length 48 mm - Ex-Zone 1/21 - M12 connector

TYPE	ST 103 S
Product ID	P11172
Medium	water, oil
Detection range water	1 cm/s ... 100 cm/s
Detection range Oil	3 cm/s ... 200 cm/s
Process connection	G1/2
Sensor length L	48 mm
Output	output with separate amplifier
Ex area uf use	Zone 1, Zone 21
ATEX Certificate	TÜV 97 ATEX 1218
ATEX marking gas	Ex II 2 G Ex ib IIC T6...T3 Gb
ATEX Marking dust	Ex II 2 D Ex ib IIIC T125°C Db
Temperature range in T6	-20 °C ... 40 °C
Temperature range in T5	-20 °C ... 55 °C
Temperature range in T4	-20 °C ... 85 °C
Temperature range in T3	-20 °C ... 85 °C
Temperature range dust-Ex	-20 °C ... 85 °C
Maximum values	Ui = 13.65 V / Ii = 200 mA / Pi = 0.69 W / Ci = 0.45 nF / Li = 1.80 µH
Start-up time typ.	8 s(2 s ... 18 s)

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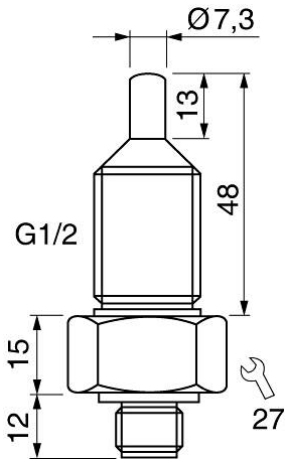
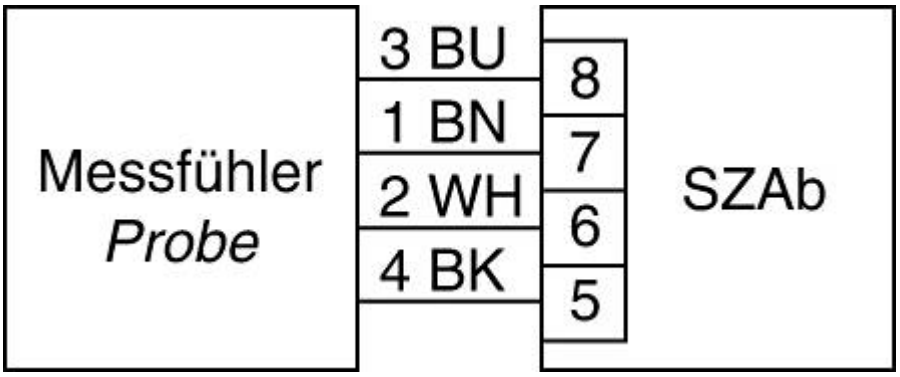
TEL. +49 4346 41580 . ege-elektronik.com

Reaction time typ.	2 s(1 s ... 13 s)
Compressive strength	60 bar
Material sensor touched by medium	stainless steel AISI 316 Ti
Material housing	stainless steel AISI 316 Ti, brass, PA
Protection [EN 60529]	IP 67
Electrical connection	M12 connector
Accessories (in scope of delivery)	2 x gasket G1/2 AFM 34
Associated amplifiers	SZAb 400 EX-GR, SZAb 400 EX-WR115, SZAb 400 EX-WR230, SZAb 400 EX-GA

Technical Image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