Technical Data Flame Sensor FFS08 / FFS08 L



Fig. 1 Figure flame sensor FFS08 L



Fig. 2 Figure flame sensor FFS08

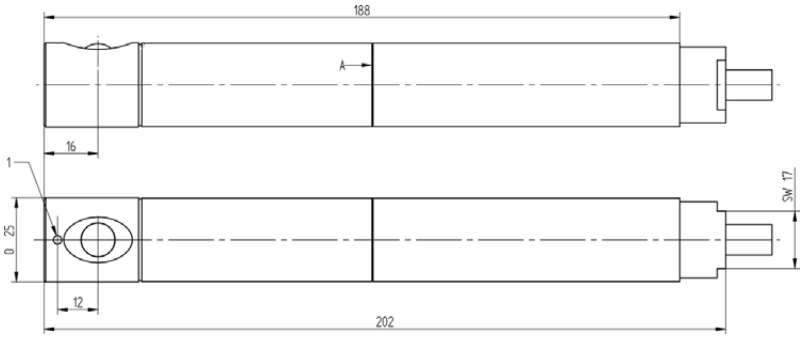


Fig. 3 Dimensional drawing flame sensor FFS08 L

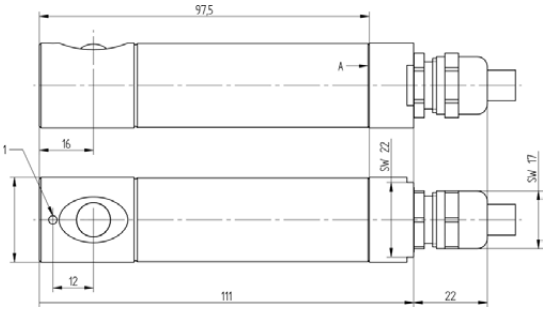


Fig. 4 Dimensional drawing flame sensor FFS08

Dimensions		
Housing type	Standard L - long	
Weight	0.40 kg | 0.88 lb	standard version incl. 3 m | 9.84 ft cable
	0,55 kg | 1.21 lb	L-version incl. 3 m | 9.84 ft cable
Material	Brass EN CW614N, nickel-plated	

Characteristics		
Operation possible with	F152, ETAMATIC, MCC CMS, MCC BC400	
Compatible	FFS08 UV	successor type of FFS06 UV - ...
	FFS08 IR	successor type of FFS06 IR - ...
Viewing angle	UV-1	approx. 5°
	UV-4	approx. 10°
	UV-6	approx. 20°
	IR	approx. 60°
Sensitivity measuring output	UV	> 25 mVAC
	IR	> 10 mVAC
Spectral range	UV-1	260 ... 400 nm
	UV-4	215 ... 360 nm (replaces UV-2)
	UV-6	215 ... 360 nm
	IR-1	1.200 ... 2.800 nm
	IR-1 T	1.200 ... 2.800 nm
	IR1 T/S2	1.200 ... 2.800 nm

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Input variable flame scanner	
Auxiliary power	
Voltage	max. 42 VDC min. 24 VDC
Current consumption	≤ 20 mA
Pulse	
Current	High > 0,8 mA Low < 0,4 mA
Sensitivity (measuring output)	
FFS07 IR	> 10 mVAC
FFS07 UV	> 10 mVAC

Output parameters	
Signal canal A + B	
Frequency	min. approx. 7 Hz
Signal delay	negligible

Connection/extension cable	
Type	6 x 0,34/0,5 mm² | 6 x 20 AWG shielded, e.g. LiYCY cross section 0,5 mm² | 20 AWG Category: AVLV2, ≥ 300V,≥ 80 °C
Cable length	< 300 m | 984,25 ft

Wear Parts	
	none

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Technical Resilience	
Operating mode	continuous operation 72 h operating according with TRD 604
Safety integrity level	DIN EN 61508 part 2 - SIL 3 in conjunction with F152
Overvoltage category	DIN EN 60730-1 ÜKIII
susceptibility to interference	DIN EN 60730-1
emitted interference	DIN EN 55022, class B
Protection class	III

Operating Condition	
Relative humidity	0 % ... 95 % non-condensing

Environmental Conditions		
Operation	permissible temperature range	UV-1: -30 ... +80 °C | -22 ... +176 °F UV-4: -40 ... +80 °C | -40 ... +176 °F UV-6: -40 ... +80 °C | -40 ... +176 °F IR-1: -20 ... +60 °C | -4 ... +140 °F
Transport	permissible temperature range	-20 ... +60 °C | -+4 ... +140 °F
Storage	Where	in enclosed spaces
Degree of protection	according to DIN EN 60529	IP66/67

NOTICE

The limits of the technical data must be strictly adhered to.

Order Information

NOTICE

All options marked with * correspond to the standard selection.

Description / Type	Order no.
Flame sensor FFS08 radial light incidence aperture, IP66/IP67	**659D31...**

A 10 – SPECTRUM			Selection
TYPE UV-4	UV-SPECTRAL RANGE	215 ... 360 nm	04*
TYPE IR-1	IR-SPECTRAL RANGE	1.200 ... 2.800 nm	10
TYPE IR-1 T	IR-SPECTRAL RANGE	1.200 ... 2.800 nm	20
TYPE IR-1 T/S2	IR-SPECTRAL RANGE	1.200 ... 2.800 nm	40

A 20 – CABLE LENGTH	Selection
CONNECTING CABLE, length 3 m | 9.84 ft	3*
CONNECTING CABLE, length 5 m | 16.40 ft	5
CONNECTING CABLE, length 10 m | 32.81 ft	10
CONNECTING CABLE, length 0.3 m | 0.98 ft, only available with plug	OE

A 30 – PLUG	Selection
WITHOUT PLUG	0*
WITH PLUG	STE

A 40 – EXTENSION/HOUSING	Selection
STANDARD, immersion depth max. -65 mm | -2.56 "in Suitable bracket FS60 and cooling air housing FS65	0*
LONG TYPE, immersion depth max. -150 mm | -5.91 ’’in Suitable bracket FS60 and cooling air housing FS65	L

The information in this publication is subject to technical changes.

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