

Technical Data Flame Sensor FFS08 / FFS08 L



Fig. 1 Figure flame sensor FFS08 L

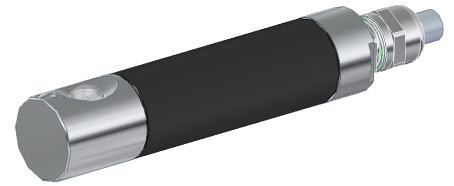


Fig. 2 Figure flame sensor FFS08

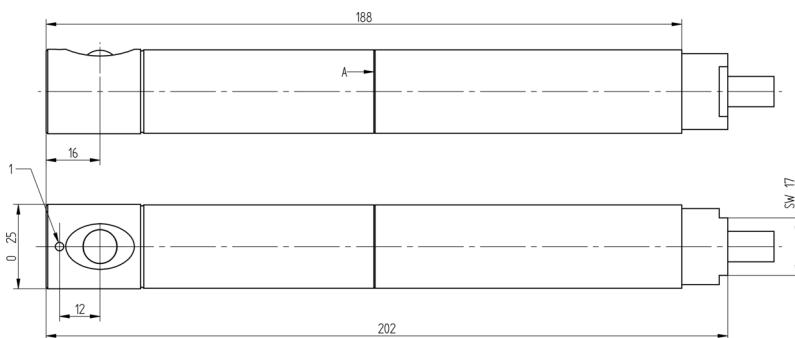


Fig. 3 Dimensional drawing flame sensor FFS08 L

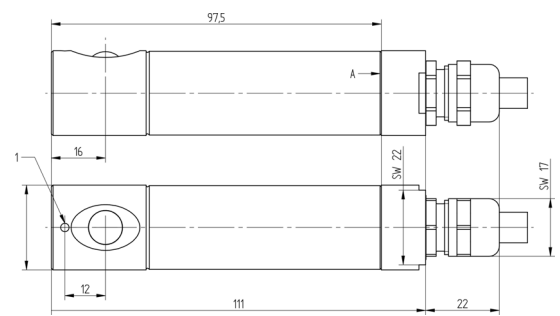


Fig. 4 Dimensional drawing flame sensor FFS08

NOTICE

The Connecting cable at FFS08 is marked with yellow heat-shrinkable sleeve approx. 1.5 cm | 0.59" in.

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	EN CW614N (brass) nickel-plated, partial black powder-coated	

Characteristics

Operation possible with	F152, ETAMATIC, MCC CMS, MCC BC400	
Compatible	FFS08 UV FFS08 IR	successor type of FFS06 UV - ... successor type of FFS06 IR - ...
Viewing angle	UV IR	approx. 8° approx. 60°
Sensitivity measuring output	UV IR	> 25 mVAC > 10 mVAC
Spectral range	UV-4	215 ... 360 nm (replaces UV-2)
	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

Output parameters

Signal canal A + B

Frequency	max. 170 Hz min. 7 Hz
Signal delay	negligible

Connection/extension cable

Type	6 x 0,5 mm ² 6 x 20 AWG shielded, z.B. LiYCY minimum cross section 0,5 mm ² 20 AWG
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

Operating Condition

Relative humidity	0 % ... 95 % non-condensing
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Environmental Conditions

Operation	permissible temperature range	UV: -20 ... +65 °C -+4 ... +149 °F IR: -20 ... +60 °C -+4 ... +140 °F
Transport	permissible temperature range	UV: -20 ... +65 °C -+4 ... +149 °F IR: -20 ... +60 °C -+4 ... +140 °F
Storage	permissible temperature range	UV: -20 ... +65 °C -+4 ... +149 °F IR: -20 ... +60 °C -+4 ... +140 °F
Degree of protection	according to DIN EN 60529	IP67
Protection class		III

NOTICE

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

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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.



**LAMTEC Meß- und Regeltechnik
für Feuerungen GmbH & Co. KG**

Josef-Reiert-Straße 26

D-69190 Walldorf

Telefon: +49 (0) 6227 6052-0

Telefax: +49 (0) 6227 6052-57

info@lamtec.de
www.lamtec.de

