Flame Sensor FFS 05 ... / FFS 05 ... Ex

for Flame Detector Devices F 250, F 150, Burner Control ETAMATIC



Sensors and Systems for Combustion Engineering



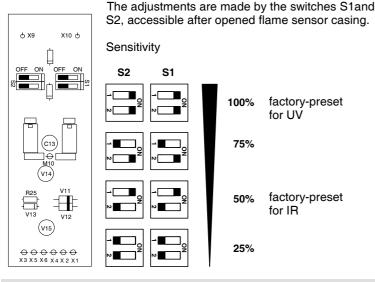
Criterion for selection of Flame Sensors

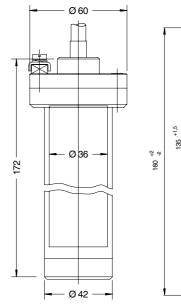
Sensor type	for radiated spectrum of	Application - Fuel
FFS 05 UV-1 (Ex)	260 400 nm	Oil, Gas (for highly required selectivity, also against back ground fire, like incineration – and coal fire)
FFS 05 UV-2 (Ex) FFS 05 UV-3 (Ex)	210 380 nm	Gas (monitoring of special gases ie. refinery – and blast furnace gases and/or against intensive back ground fire like hard coal fire produces)
FFS 05-1 (Ex)	850 1200 nm	Dust coal firing (firing chamber flame monitoring)
FFS 05 (Ex)	1200 2800 nm	Oil, gas, wood, coal firing with very much of flue gas recirculation, yellow coloured waste gases without UV-radiation respectively shielded UV-radiation by steam, dust, etc.

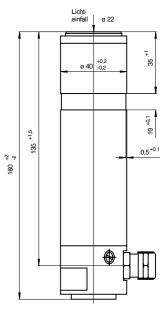
Instructions for installation and operating the Flame Sensors

Adjust the flame sensor with its designated bracket to the view opening of the burner, so that the burner-flame is good visible and can be excellent monitored for the "full firing rate of the furnace". The flame sensor should be adjusted to the first third part of the flame for selective monitoring tasks. Sensitivity adjustments according to the flame can be made by threshold-switches of the flame sensor. Therefore open, -screw off the flame sensor casing and adjust the switches according the following illustration.

FFS 05... (Ex)







Order text information

The Flame Sensor FFS 05... is delivered incl. 3 m connecting cable respectively with 0,3 m and Coninvers plug. Is the order of FFS 05 with the Coninvers plug, than an additional connector plug incl. 3 m connecting cable (659 R 0112) is required and has to be ordered too.

The Flame Sensor FFS 05... Ex (installed in the BARTEC casing, PTB 03 ATEX 1026, II 2G EEx d IIC T6) are always delivered without a plug.

Therefore the Junction box FG 24 Ex (ABTECH casing, SIRA99ATEX3173, II 2GD EExe II T6) is available.

FFS 05	without plug, 3 m cable	659 R 1001	FFS 05 wi	ith plug, 0,30 m cable	659 R 1011/OE
FFS 05-1	without plug, 3 m cable	659 R 1002	FFS 05-1 wi	ith plug, 0,30 m cable	659 R 1012/OE
FFS 05 UV-1	without plug, 3 m cable	659 R 2001	FFS 05 UV-1 wi	ith plug, 0,30 m cable	659 R 2011/OE
FFS 05 UV-2	without plug, 3 m cable	659 R 2002	FFS 05 UV-2 wi	ith plug, 0,30 m cable	659 R 2012/OE
FFS 05 UV-3	without plug, 3 m cable	659 R 2003	FFS 05 UV-3 wi	ith plug, 0,30 m cable	659 R 2013/OE
			Coninvers connec	ctor plug with 3 m Kabel	659 R 0112
FFS 05 Ex		659 R 1101			
FFS 05-1 Ex		659 R 1102			
FFS 05 UV-1 E	Ξx	659 R 1103	Weight:	0,4 kg (FFS 05)
FFS 05 UV-2 E	Ēχ	659 R 1104		1,6 kg (FFS 05	Ex)
FFS 05 UV-3 Ex		659 R 1105	Protection class:	IP 65	
FG 24 Ex Junction Box		659 R 0111	Ambient temperat	Ambient temperature: -10°C +60 °C	



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