

Model: FS-CW22-LFO-W

Proximity Switch | Intrinsically Safe | Low Temperature
INMETRO Ex ia IIC / IIIC T4 / T6

Our FS series switches are able to sense ferrous material, such as carbon or stainless steel (17/4 or 400 series) at up to 2.5mm (0.1") and are reliable through millions of operations.

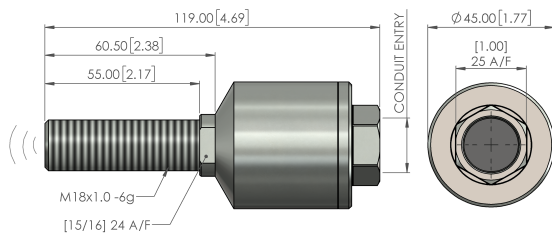
Properties

Body Shape	Field Wireable Connection Head - Back Entry
Body Material	316L Stainless Steel
Contact Arrangement	NAMUR LFO (Normally Open)
Contact Material	Palladium-Silver
Mounting Thread	M18x1.0 (55.00mm / 2.17" long) c/w 2 x locknuts
Connection	Back / Top entry
Conduit Entry	M20 x 1.5
Termination	Wireable Connection Head
Certification & Approvals	Inmetro Ex ia
Hazardous Location	Zones 0 and 20
Gas Group	IIC
Dust Group	IIIC
Temperature Class (T Rating)	T4 / T6
Operating Temperature	-60°C to +125°C / -76°F to +257°F
Sensing Range with Magnet	<12mm (0.47")
Sensing Face Pressure Rating	2000psi / 138 bar
Environmental Protection	IP 66, 67 & 68 (24hrs at 30m)/ NEMA 4X & 6P
Safety Rating	SIL 2 / SC3
Repeatability	Approx. 0.05mm (0.002")
Response Time	8 ms
Differential / Hysteresis	< 0.51mm (0.020")

Ratings

Ui	Ii	Pi	Ci	Li
30V	250mA	0.65W	0pF/m	0μH/m
To be supplied via a certified intrinsically safe barrier.				

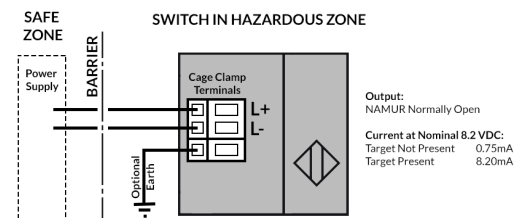
Dimensions



Sensing Ranges

Standard Sensing	Magnet Part No.	Range mm (")
Ferrous Material = 2.5mm (0.10")	MA-1S	4.0 (0.16)
Extended Sensing Optional magnetic targets can be used to increase sensing range.	MA-4S	8.0 (0.31)
	MA-7S	12.0 (0.47)
	MA-8S	8.0 (0.31)

Connections



WAGO Cage Clamp terminals. Suitable for conductors 0.08-2.5mm² / 28-12 AWG.

Certifications & Approvals

Certification	Compliance	Certificate No.
ATEX	EN IEC 60079-0:2018, EN 60079-11:2012	Baseefa14ATEX0013X
IECEX	IEC 60079-0: 2017, IEC 60079-11: 2011	IECEXBAS14.0003X
INMETRO (Brazil)	ABNT NBR IEC 60079-0:2013, IEC 60079-11:2013, IEC 60079-26:2016	NCC-14.2910X
Safety Integrity Level (SIL)	IEC 61508:2010; SC3 ; SIL 2 with HFT=0 (1oo1) and SIL 3 with HFT =1 (1oo2)	FSP18015
UKEx	EN IEC 60079-0:2018, EN 60079-11:2012	BAS21UKEx0626X