

FS-C Series - Proximity Switch - Ferrous

Model:FS-CD22-WLR(X041)

Proximity Switch | Explosion Proof NEMA 7 & 9 | Low Temperature Globally Certified - Explosion Proof IIC | A - D / IIIC | E - G T4 / T6 SPCO/SPDT

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	Wireable Connection Head - 360° Rotatable
Body Material	316L Stainless Steel
Contact Arrangement	SPCO / SPDT (Form C)
Contact Material	Palladium-Silver
Mounting Thread	M18x1.0 (60mm/2.36" Long) c/w 2 x locknuts
Max Current	4A
Connection	Side entry 360° Rotatable
Conduit Entry	M20 x 1.5
Termination	Wireable Connection Head - 360° Rotatable
Certification	ATEX/IECEx Ex d/db/tb UL/CSA + Regionals
Hazardous Location	Zone 1, 2, 21, 22 Class I & II Div 1
Gas Group	IIC A - D
Dust Group	IIIC E - G
Temperature Class (T Rating)	T4 / T6
Operating Temperature	Ex db: -60°C to +120°C / -76°F to +248°F UL: -60°C to +105°C / -76°F to +221°F
Sensing Range with Magnet	<12mm (0.47")
Sensing Face Pressure Rating	2000psi / 138 bar
Environmental Protection	IP 66 & 67 / NEMA 4, 4X & 6
Safety Rating	SIL 2 / SC3
Repeatability	Approx. 0.05mm (0.002")
Response Time	8 ms
Differential / Hysteresis	< 0.51mm (0.020")



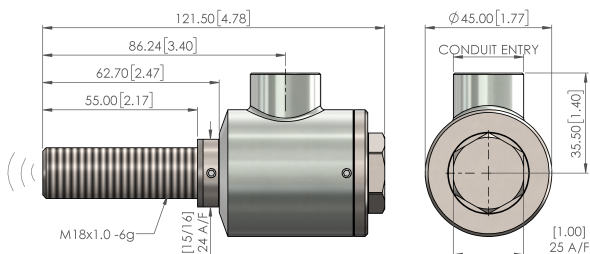
Ratings

Supply Voltage	Max switching Current	Max Voltage
24 VDC	3A	230 V AC/DC
110/120 VAC	4A	
230/240 VAC	2A	

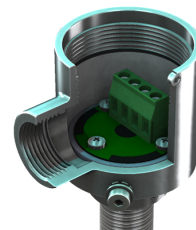
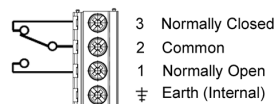
Sensing Ranges

Standard Sensing	Magnet Part No.	Range mm (")
Ferrous Material = 2.5mm (0.10")		
Extended Sensing	MA-1S	4.0 (0.16)
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)

Dimension



Connection



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

Certifications and Approvals

Certification	Compliance	Certificate No.
ATEX	EN 60079-0: 2012 + A11:2013, EN 60079-1: 2014, EN 60079-31: 2014	Baseefa14ATEX0119X
INMETRO (Brazil)	ABNT NBR IEC 60079-0:2013, IEC 60079-1:2016, IEC 60079-31:2014	NCC-14.2911X
CCC Mark (China)	GB 3836.1-2010, GB 3836.4-2010, GB 12476.1-2013, GB 12476.4-2010	2020322304000800
EAC/TR CU	TP TC 012/2011, GOST 31610.0-2014, IEC 60079-1: 2011, IEC 60079-31-2013	EA9C RU C-GB.AX58.B.00538-20
IECEx	IEC 60079-0 : 2011, IEC 60079-1 : 2014-06, IEC 60079-31 : 2013	IECExBAS14.0056X
KCs (Korea)	Announcement No. 2016-54 Ministry of Employment and Labor	16-KA4BO-0162X
NEPSI (China)	GB 3836.1-2010, GB 3836.2-2010, GB 12476.1-2013, GB 12476.5-2013	GYJ18.1496X
PESO-CCOE (India)	IEC 60079-0 : 2011, IEC 60079-1 : 2014-06, IEC 60079-31 : 2013	P433822_1
Safety Integrity Level (SIL)	IEC 61508:2010; SC3 SIL 2 with HFT=0 (1001) and SIL 3 with HFT=1 (1002)	FSP18015
UL/CSA	UL1203, CSA C22.2 25 & 30	E364212