

ES-3 Series - Proximity Switch - Magnetic

Model:ES-3321

Proximity/Limit Switch | Explosion Proof / Flameproof IECEX / ATEX Ex d/db/tb IIC / IIIC T6 SPCO/SPDT

Our ES series switches are highly dependable, hermetically sealed position sensors for use in the most arduous and hazardous applications. They require the use of a magnetic target to operate.

Properties

Body Shape	Cylindrical
Body Material	316L Stainless Steel
Contact Arrangement	SPCO / SPDT (Form C)
Contact Material	Rhodium (Tungsten optional)
Mounting Thread	M18x1.0 (60mm / 2.36" long) c/w 2 x locknuts
Max Current	2.5A
Connection	PVC Cable
Conduit Entry	PG9 Conduit Entry
Termination	Cabled
Certification	IECEX/ATEX Ex d/db/tb
Hazardous Location	Zone 1, 2, 21 and 22
Gas Group	IIC
Dust Group	IIIC
Temperature Class (T Rating)	T6
Operating Temperature	-20°C to +70°C / -4°F to +158°F
Sensing Range with Magnet	Up to the maximum in the magnet table
Sensing Face Pressure Rating	2000psi / 138 bar
Environmental Protection	IP 66, 67 & 68 / NEMA 4, 4X, 6, 6P, 7 & 9
Safety Rating	SIL 2 / SC3



Ratings

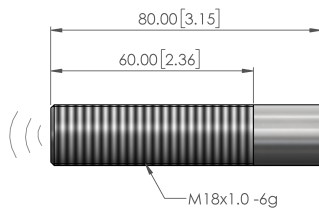
Supply Voltage	Max switching Current	Max Voltage	Max switching Power
24 VDC	2.5A		
110/120 VAC	540mA		
230/240 VAC	250mA	400 V AC/DC	60W VA

Sensing Ranges

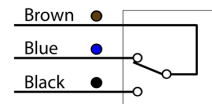
Sensing range depends on the magnetic target used. We have a large range of magnetic targets available. Please contact us for more information.

Magnet Part No.	Range mm (")
MA-1S	8 (0.31)
MA-4S	8 (0.31)
MA-7S	16 (0.63)
MA-8S	8 (0.31)

Dimension



Connection



Supplied with 2m (78") of 3 core PVC Cable. Custom lengths available on request. Cable OD: 6.5mm (0.256").

Certifications and Approvals

Certification	Compliance	Certificate No.
ATEX	EN 60079-0: 2012 + A11:2013, EN 60079-1: 2014, EN 60079-31: 2014	Baseefa14ATEX0256X
IECEX	IEC 60079-0 : 2011, IEC 60079-1 : 2014-06, IEC 60079-31 : 2013	IECEXBAS14.0121X
Safety Integrity Level (SIL)	IEC 61508:2010; SC3 SIL 2 with HFT=0 (1oo1) and SIL 3 with HFT =1 (1oo2)	FSP18015