

**Model: ES-3321-10M**

**Proximity/Limit Switch | Explosion Proof / Flameproof  
 ATEX Ex d/db/tb, IECEx Ex d/db/tb, UKEx 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 & Approvals	IECEX, ATEX, UKEx 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 (24hrs at 30m)/ NEMA 4X & 6P
Safety Rating	SIL 2 / SC3



**Ratings**

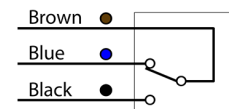
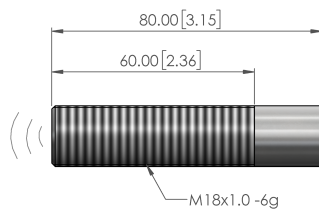
Supply Voltage	Max Switching Current	Max Voltage	Max switching Power
24 VDC	2.5A	400 V AC/DC	60W VA
110/120 VAC	540mA		
230/240 VAC	250mA		

**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)

**Dimensions**



Supplied with 10m (394") of 3 core PVC Cable (18 AWG). Custom lengths available on request. Cable OD: 6.5mm (0.256"), rated to 300V.

**Certifications & Approvals**

Certification	Compliance	Certificate No.
ATEX	EN IEC 60079-0: 2018, EN 60079-1: 2014, EN 60079-31: 2014	Baseefa14ATEX0256X
CCC-Ex / NEPSI (China)	GB/T 3836.1-2021, GB/T 3836.2-2021, GB/T 3836.31-2021	2020322304000801
IECEX	IEC 60079-0:2017, 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
UKEx	EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014	BAS21UKEX0756X