

# SAFETY SWITCH WITH MAGNETIC / ELECTROMAGNETIC HOLDING

## 2 IN 1 SOLUTION STAINLESS STEEL 316L

**Before**



SAFETY SWITCH



PERMANENT  
MAGNET OR ELEC-  
TROMAGNETIC FOR  
HOLDING THE DOOR



HANDLE

**Today**



EPINUS 2K

**Or**



EPINUS 4K

**Or**



SM1

**Or**



SM2

**Our solution designed for dangerous  
machines guards**

### Technical Specifications EPINUS 2K - 2 Kgs Magnetic Holding

	2K	2K72	2K-NT-MKTS
Supply voltage	24 VDC max	20 to 28 VDC	20 to 30 VDC
Power supply	20 mA	40 mA	50 mA
Cable connection	Teflon 7 x 0.25 mm <sup>2</sup>	PVC 7 x 0.25 mm <sup>2</sup>	-
M12 cord connection		PUR 8 x 0.25 mm <sup>2</sup>	SIL 8 x 0.25 mm <sup>2</sup>
Cable diameter	4.5 mm	5.5 mm	7 mm
Cable bend radius	> 50 mm		
Specifications of contacts	40 V / 250mA		
Detection/hysteresis in mm	3 / 2	3 / 2	2 / 1
Operating temperature	-25° C to +90° C (-13° to +194° F)	-25°C to +80°C (-13 to +176°F)	-40°C to +125°C (-40° to +257° F)
Housing water tightness	IP 69K		
Water tight connector	-	IP67	
Weight with packaging	3 m: 440 grams		460 grams
Vibration / shock	10 Hz to 55 Hz 1 mm / 30 g 11 ms		

### Technical Specifications EPINUS 4K - 4 Kgs Magnetic Holding

Supply voltage	20 to 30 VDC
Power supply	55 mA at 30 V
Connection via PUR MKT cord	8 x 0.25 mm <sup>2</sup> / AWG24 (R curvature 50 mm min)
LED Lighting	red=door open / green=door closed orange=product or alignment fault or out of range
Contact specifications at -40 to +25°C (-40 to +77°F)	40 V / 400mA free of potential unidirectional
Contact specifications at +80°C (+176°F)	40 V / 100mA free of potential unidirectional
Operating temperature	-25°C to +60°C (-13° to +140° F)
Detection distances according to IEC 60947-5-3	Sn=3 mm (typical distance) Sao = 5 mm (ensured activation distance) Sar=6 mm (ensured rupture distance) Length/height offset = +/- 3 mm
Sealing	IP 69K housing, M12-8p IP 67 connector
Sensor material / cable / nut / washer	INOX 316L / PUR polyether / INOX A2 / INOX A2
Weight with packaging	MKT220: 320 grams and MKT50: 210 grams
Mounting/fastening	BH5-30 (M5 x 30) + washers provided
Vibration / shock	10 Hz to 55 Hz 1 mm / 30g 11 ms

Technical Specifications SM1 & SM2 - Interlocking with electromagnet from 30 to 100 Kgs

	SM1		SM2
	OX	PL-AC	OX
Supply voltage	21.6 VDC to 26.4 VDC		
Power supply without magnet action	40 mA to 24 VDC		
Power supply with magnet action			
Type E	670 mA	0.21 A	1.35 A
Type R	150 mA	0.075 A	0.3 A
Connection	8 x 0.25 mm <sup>2</sup> Rmin > 50	M12 male 8 pin baseplate	8 x 0.25 mm <sup>2</sup> Rmin > 50
LED lighting	Yes		No
Specifications of contacts	Safety: 2 x 40 V/300 mA, Diagnostics: 40 V/300 mA		
Operating temperature	-25°C to +50°C (-13° to +122° F)		
Detection distances			
Sn (typical distance)	5 mm		
Sao (ensured activation distance)	4 mm		
Sar (ensured rupture distance)	8 mm		
Offset	Centering and parallelism to be performed		
Holding force			
R	~ 500 N	~ 500 N	~ 936 N
E	~ 400 N	~ 300 N	~ 820 N
Water tightness	IP 69K box IP 67 connector	IP 54	IP 69K box IP 67 connector
Box/housing material	Stainless steel	PA6	Stainless steel
Cable or connector	316L PUR polyether	Cu/Ni baseplate	316L PUR polyether
Weight with packaging	1110 g	700 g	2000 g
Screw mounting	2 x M4	2 x M4	2 x M6



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