



# MS-216E

## E-Bike Sensor Tubular



Product image serves as example only.

### Electrical Characteristics

@ 25°C

Contact form		A
Contact rating max.	W / VA	10
Switching voltage max.	VDC	200
	VAC	140
Switching current max.	A	1.0
Carry current max.	A	1.2
Breakdown voltage min.	VDC	240
Total resistance max. (initial)	Ω	1
Insulation resistance min.	Ω	10 <sup>10</sup>

### Magnetical Characteristics (of unmodified Reed Switch)

@ 25°C

Pull in range available	AT	10 – 15
Drop out min.	AT	4
Test coil	TC	014
Test equipment tolerance	± AT	2

### Operating Characteristics (of unmodified Reed Switch)

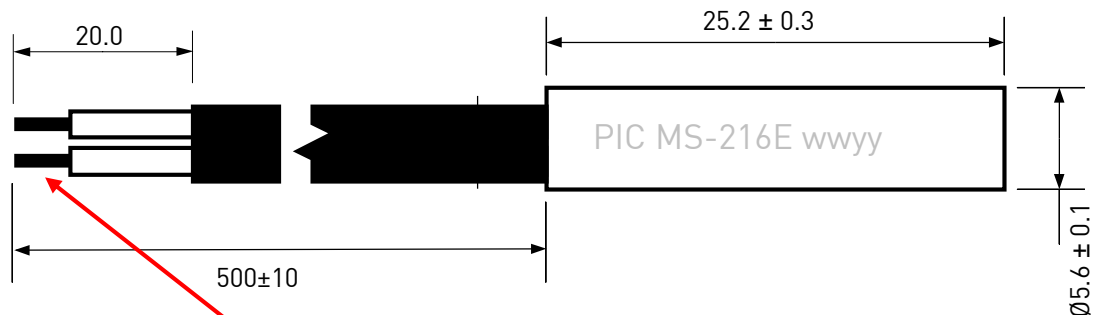
@ 25°C

Switching frequency max.	Hz	500
Resonant frequency typ.	Hz	4000
Operate time max. (incl. bounce)	ms	1.0
Release time max.	ms	0.4

### Environmental Characteristics

Operating temperature	°C	-40 to +85
Storage temperature	°C	-40 to +70
Vibration (50-2000 Hz)	g	20
Shock (1/2 sin 11 ms)	g	100

### Dimensions in mm



#### Remarks

Customizable cable length and connector possible

Matching Spoke Magnet

PIC-SM115153 available as well



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#### Material Information

Housing material	ABS, black
Potting material	PU, black
Cable information	Coroplast black, TT3 PUR FLR9Y11Y, 2x0.35mm <sup>2</sup> , dia 4.0-0.4mm, 2 cores 20 mm dismantled, max. 10mm core ends stripped



**ERMEC, S.L.**  
C/ Francesc Teixidó, 22  
P. E. Granland, Badalona Sur  
08918 Badalona  
Barcelona (SPAIN)  
Tel. (+34) 902 450 160  
Fax (+34) 902 433 088  
ermec@ermec.com  
www.ermec.com

#### Remarks

When mounted onto ferromagnetic parts switching distance of MS-216E may reduce.  
Electromagnetic influences and magnetic fields may change the switching behaviour of the sensor.