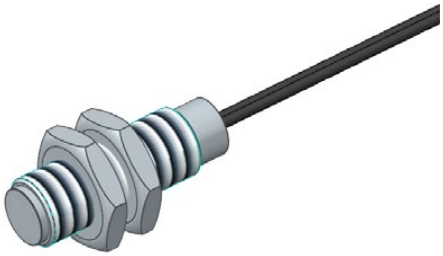
MRS09 Reed Proximity Switch

1 Characteristic

- ◆ Reliable electronic switching of outputs
- ◆ High-end sensing application
- ◆ High insulation resistance 109Ω
- ◆ Suitable for low power consumption operation
- ◆ Customized design



2 Specification

Name	Unit	Value			
Touch point	/	A(NO)			B(NC)/C(Switchable)
Capacity of touch point	W	10	10 (HV)	100	10
Switchable Voltage(Max DC/Peak AC)	V	180	AC 260/DC 200	1000	175
Switchable current (Max DC/Peak AC)	A	0.5	AC 0.3/DC 0.4	1.0	0.5
Max load current	A	1.25	1.4	2.5	1.0
Touch resistance(0.5V&50mA)	mΩ	150	150	150	150
Break down voltage	VDC	250	400	1500	200
Insulation Resistance (Rh＜45% 100V)	Ω	10^{10}	10^{10}	10^{10}	10^{9}
Pick-up time	ms	0.7	0.7	1.1	0.7
Release time	ms	0.05	0.1	0.05	1.5
Interelement capacitance	pF	0.3	0.3	0.5	1.5
Vibration(0～2000Hz)	G	20	20	20	20
Impact(11ms，1/2 Sine wave)	G	30	30	30	30
Operating temperature	℃	-30～+80	-40～+80	-30～+80	-30～+80
Storage temperature	℃	-40～+85	`-40～+85	-40～+85	-40～+85

3 Nomenclature

MRS09 - □ - □ -□ -□ -□ (XXX)

① ② ③ ④ ⑤ ⑥ ⑦

① Model：MRS09

② Thread size：M5；M6；M8；M10；M12

③ Touch point：1A：NO；1B：NC；1C：NO NC

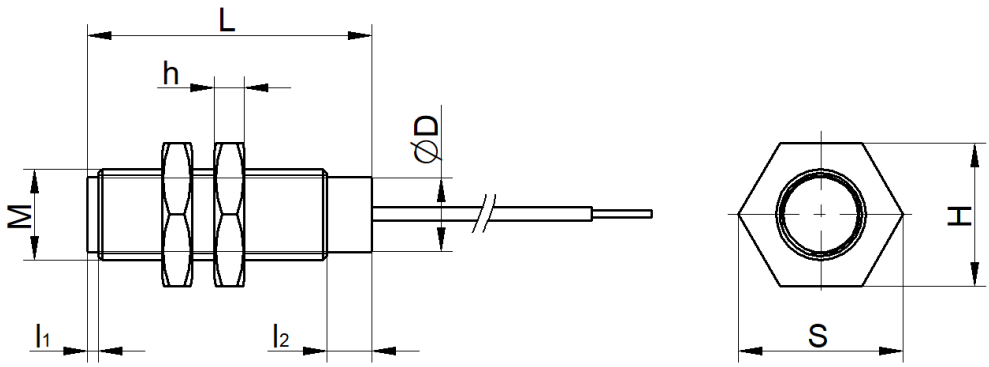
④ Type：1：10W；2：10W(HV)；3：100W

⑤ Magnetic Sensitivity(AT)：A：05-10；B：10-15；C：15-20 ；D：20-25；E：25-30；F：30-35；G：35-40

⑥ Cable(mm)：1：200；2：300；3：500；4：1000；5：1500；6：2000；7：3000；8：5000

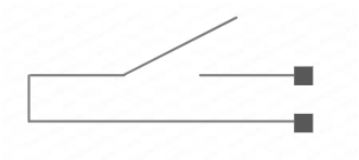
⑦ Customized type：subject to client request

4 Dimension diagram



Size(mm) / Spe.	M	L	H	S	h	l_1	l_2	D	Note
MRS09-M5-□	M5×0.8	25	7	8	1.2	/	4.1	4.2	
MRS09-M6-□	M6×1	38	10	11.5	2	/	6	4.8	
MRS09-M8-□	M8×1	38	13	15	3	1.3	6	6	
MRS09-M10-□	M10×1.25	38	17	19.6	4	1.5	6	8	
MRS09-M12-□	M12×1.25	38	19	21.9	4	1.5	6	10	

5 Circuit



6 Caution

※ Avoid installing it in a place where it is directly exposed to rain, or in a place with a strong magnetic field, or near an object with heat radiation.

※Avoid using excessively high packing density, which may affect the electrical characteristics of the switch.

※Excessive mechanical impact may change its magnetism or even damage the switch.

※Adopt appropriate installation methods to reduce switching distance and avoid using magnetic screws.

※The minimum bending distance of the wire is 5mm, and dragging is prohibited.