PROXIMITY SWITCHES SERIES RCE, RPE AND RNE







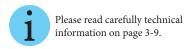
RPE and RNE series of electronic (PNP and NPN) proximity switches eliminates negative features of reed relays. Those switches are fully electronic, which brings excellent properties and long lifetime. We also offer reed switches, series RCE. All series switches can be used with cylinders series M*

Technical data

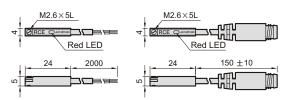
Description	Value / Switch type				
	RCE (reed switch)	RPE (solid state switch, P	NP) RNE (solid state switch, NPN)		
Supply voltage U _b [V]	5 to 230 DC or AC	5 to 30 DC	5 to 30 DC		
Max. switching power [W / VA]	10	1.5	1.5		
Continuous current I _a [mA]	≤ 100	≤ 50	≤ 50		
Power consumption [mA] at 24V on-state	_	≤ 12	≤ 10		
Voltage drop U _d [V]	≤ 2.5	≤ 1.5	≤ 0.5		
Leakage current [mA]	_	≤ 0.01	≤ 0.01		
Enclosure rating	IEC 529 IP67				
Temperature range T_a [$^{\circ}$ C]	-10 to +70				
Cable	2 wires, Ø2.8 mm	3 wires, ø3 mm	3 wires, ø3 mm		
Cable length	2 m or 0.15 m with M8x1 connector				
Housing material	plastic				
Integrated protection	_	power source reverse polar	power source reverse polarity, surge suppression		

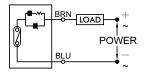
Order codes

Туре	Switching	Max. response	Function	Order codes for switch with connection	
	output	time [Hz]	indicator	cable 2 m	cable 0.15 m with M8x1 connector
RCE	reed	1	red LED	PRCE	PRCE-QD
RPE	PNP	1	red LED	PRPE	PRPE-QD
RNE	NPN	1	green LED	PRNE	PRNE-QD



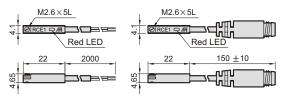
Dimensions and connection of RCE type



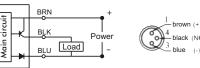




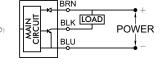
Dimensions of RPE and RNE type



Connection of RPE type



Connection of RNE type



How to fix switch on cylinder and which series for which cylinder type

Pneumatic cylinder type	Sutable switch with direct mounting
MCGS, MCGD, MCDA, MCSS, MSBD ¹⁾ , MSBR ²⁾ , MSBS ³⁾ , MCHA, MCHB, MCRPMD	✓ RCE, ✓ RPE, ✓ RNE

- 1) Except piston diameter 50 mm in this case please contact our technical dept.
- 2) Except piston diameter 20 mm in this case please contact our technical dept.
- 3) Except piston diameter 20 and 50 mm in this case please contact our technical dept.

9 STRÁNSKÝ A PETRŽÍK

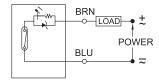


Warning

Do not exceed specification, permanent damage to the sensor may occur.

Rules for using of proximity switches

1. For reed switch type sensors, polarity must also be observed for the proper functioning of LED. Connect the brown wire in series with load positive (+) and the blue wire to negative (-) of power source. If the polarity is reversed, reed switch remains functional but LED will remain in "OFF" state.



2. For solid-state type sensors, polarity must also be observed. Connect brown (red for SP-472 switch) wire to the positive (+) and the blue to the negative (-) of DC power source. The black (white for SP-472 switch) wire must connect to the load only. If the black (white for SP-472 switch) wire is accidentally connected to the power source, permanent damage to the sensor may occur.



3. An external protection circuit may be required if the reed switch is used with inductive load. For DC voltage, the diode must be connected, for AC voltage, the RC circuit must be connected as shown below.



- 4. Keep sensors away form stray magnetic field to prevent malfunctions.
- 5. When using reed switch with capacitive load or if the lead wire length exceed 10 meters, an inductor must be installed in series.

