

Series CSB and CSC magnetic proximity switches

1

MOVEMENT

Reed switches



The reed switch that has a mechanical switching element, is suitable for voltages, AC and DC up to 110 V. Proximity switches mod. CSC are suitable for gripper mod. CGL. The proximity switches are impregnated in a sealed isolating cover. These sensors are designed to fit into the grooves provided in the profile barrel of the grippers. For electrical connections see schemes.

Series CSB/CSC magnetic proximity switches define the position of the magnetic piston. When the internal contact is actuated by a magnetic field, the sensors complete an electrical circuit and provide an output signal to actuate directly a solenoid valve or a PLC.

A red Led shows when the internal magnetic contact is closed.

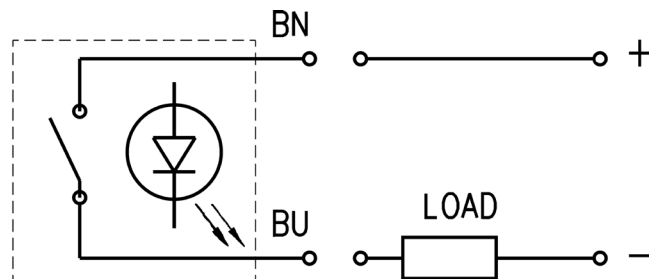
GENERAL DATA

Model	CSB-220 CSC-220
Operation	Reed contact
Voltage	3 ÷ 110 V AC/DC
Protection	IP66
Material	Plastic body encapsulating epoxy resin
Mounting	directly into the groove
Signalling	by means of LED (red)
Electrical connections	2 x 0,14 cable (2 m)
Switching current	3 ÷ 50 mA
Max. load	8 W, 10 VA
Switching time	<1 ms (1/1000 sec)
Operating temperature	-10°C ÷ 60°C
Type of contact	NO
Weight	18 g
Protection circuit	None
Output	-

CODING EXAMPLE

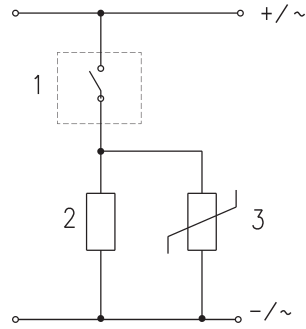
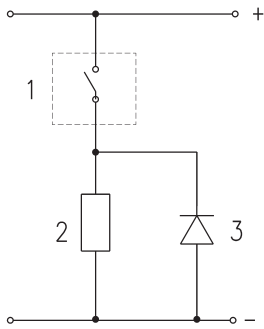
CS	B	-	D	-	2	20
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CS	SERIES
B	SLOT SHAPE: B = Square C = Round
D	CABLE TYPE: D = straight H = 90°
2	OPERATION: 2 = reed
20	CONNECTION: 20 = 2 wires (Reed only)

ELECTRICAL CONNECTORS


BN = brown
BU = blue

Electric circuits with protection against voltage spikes



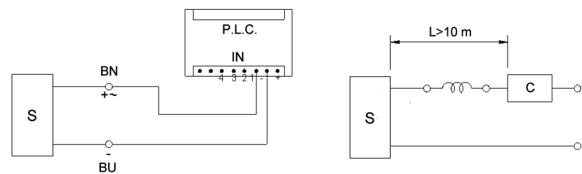
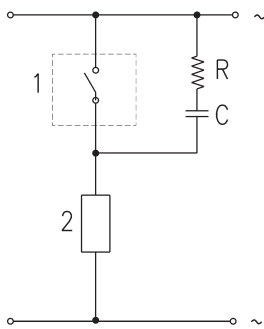
There is no protection on the Reed sensors on the inductive load, therefore it is advisable to use electric circuits with protection against the voltage spikes: the first for direct current (DC), the second for alternating current (AC).

- 1 = Reed sensor
- 2 = Load
- 3 = Diode / Varistor

When the wire length of sensor connection load is more than 10m, inductors shall be installed in series near the sensor to avoid ripple.

- 1 = Reed sensor
- 2 = Load
- R = Resistor
- C = Capacitor

Electric circuits with protection against voltage spikes



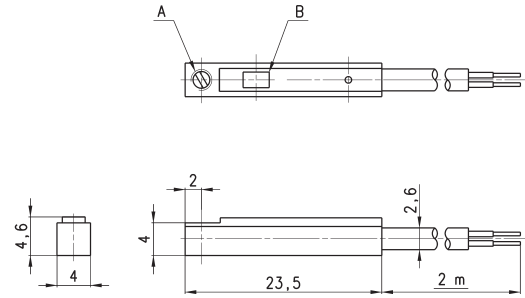
There is no protection on the Reed sensors on the inductive load, therefore it is advisable to use electric circuits with protection against the voltage spikes.

- BN = Brown
- BU = Blue
- C = Load

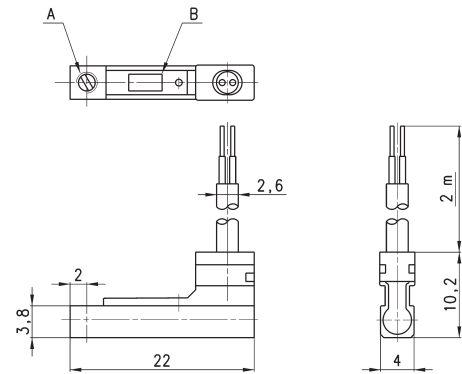
When the wire length of sensor connection load is more than 10m, inductors shall be installed in series near the sensor to avoid ripple.

- BN = Brown
 - BU = Blue
 - C = Load
- When L is more than 10m. the cable has to be considered as an inductive load.

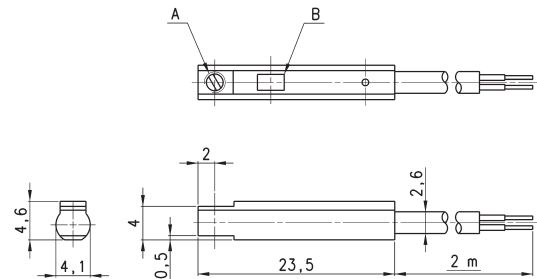
Connectors Mod. CSB-D-220


 Mod.
CSB-D-220

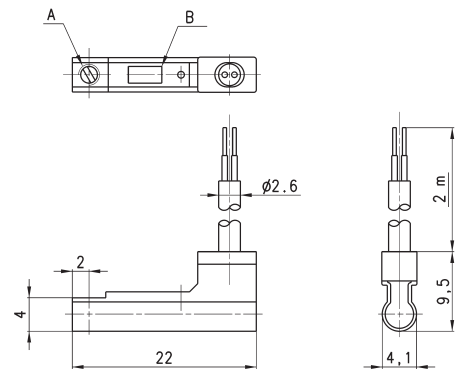
Connectors Mod. CSB-H-220


 Mod.
CSB-H-220

Connectors Mod. CSC-D-220


 Mod.
CSC-D-220

Connectors Mod. CSC-H-220


 Mod.
CSC-H-220