MAGNETIC PROXIMITY SWITCHES
SERIES CSC

Reed Contact



The Mod. CSC magnetic proximity switch is designed to detects the piston position inside the gripper.
When its internal contact is actuated by the magnetic field generated by the piston magnet, the sensor generates an output signal that can be used to actuate directly a solenoid valve or a PLC.

An LED diode indicates sensor switching, making functional checks easier.
The Series CGLN gripper body is equipped with grooves for sensor mounting, allowing direct installation on the gripper and detection of the piston position.

General Data

Operation	Reed contact
Contact in Reed switches	Normally Open (NO)
Voltage output	10÷110 V AC/DC
Max. current	50 mA
Max. load	8 W DC and 10 VA AC
Protection class	IP66
Materials	Plastic body encapsulating epoxy resin
Mounting	Directly into the groove
Signalling	Signalling by means of a red diode Led
Protection	Against polarity reversing and overvoltage
Switching time	<1 ms
Operating temperature [°C]	-10°C ÷ 60°C
Electrical connection	With a 2-wire cable, section 2x0.14, 2m, high flexibility

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MAGNETIC PROXIMITY SWITCHES
SERIES CSC - CODING EXAMPLES

Coding Example

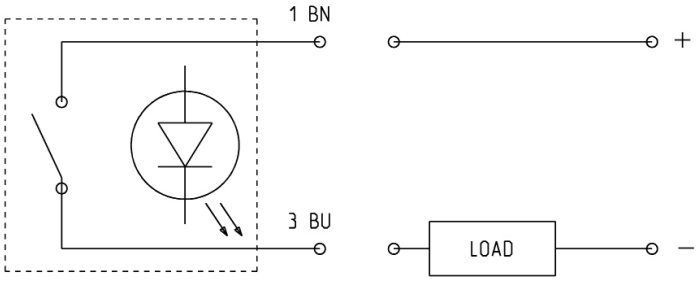
CS	C	D	2	2	0

CS	SERIES
C	TYPE OF SLOT C = C-slot
D	CABLE OUTPUT D = straight H = 90°
2	OPERATION 2 = Reed NO
2	CONNECTIONS 2 = 2 wires
0	POWER SUPPLY VOLTAGE 0 = 10 ÷ 110 V AC/DC
	LENGTH OF THE CABLE = 2m 5 = 5m

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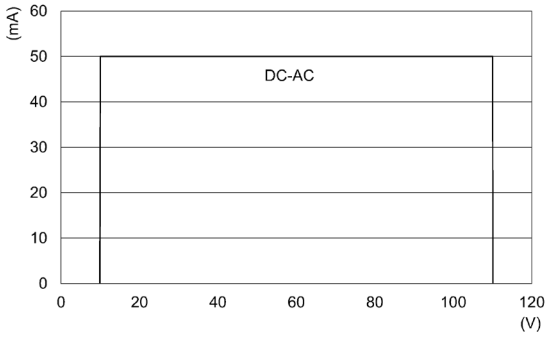
Switches electrical connections

Reed switches



Legend:
BN = brown
BU = blue

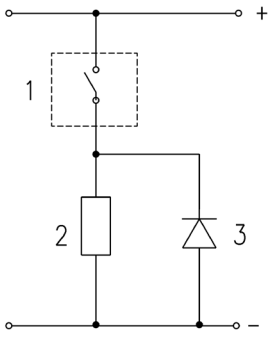
Load curves of sensors Mod. CSC



Electric circuit with protection against voltage spikes

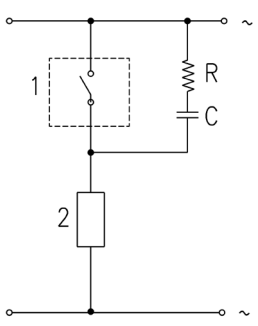
There is no protection on the Reed sensors on the inductive load, therefore it is advisable to use an electric ciruit with protection against the voltage spikes.
See picture for a typical example.

DC applications



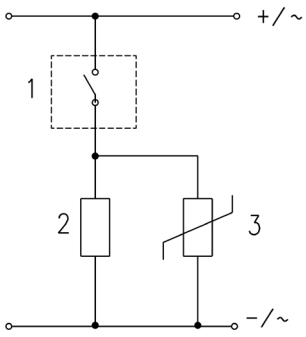
Legend:
1 = Sensor
2 = Load
3 = Protection diode

AC applications



Legend:
1 = Sensor
2 = Load
C + R = Series of resistor and protection capacitor

DC and AC applications



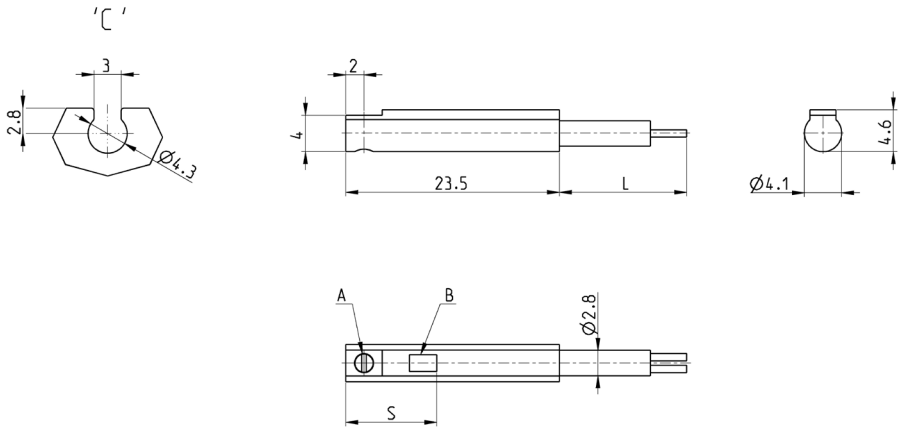
Legend:
1 = Sensor
2 = Load
3 = Protection varistor

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MAGNETIC PROXIMITY SWITCHES
SERIES CSC - DIMENSIONS

Magnetic proximity switch with 2-wire cable for C-slot





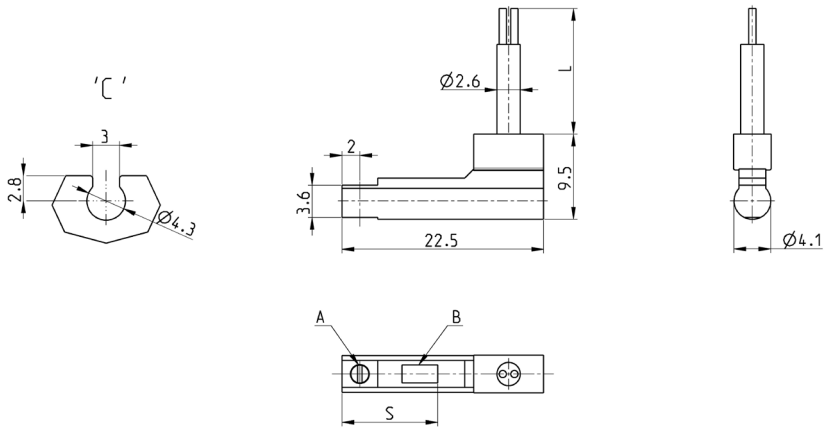
A = Fixing screw
B = Led indicator
S = Sensing point
L = Length cable

Mod.	Operation	Connections	Voltage	Output	Max. current	Max Load	Protection	L	S	LED colour
CSC-D-220	Reed	2 wires	10÷110 V AC/DC	PNP	50 mA	8 W / 10 VA	Against polarity reversing and overvoltage	2 m	11 mm	Red

In case of polarity reversing the sensor will still be operating, but the LED diode won't turn on.

Magnetic proximity switch with 2-wire 90° cable for C-slot





A = fixing screw
B = Led indicator
C = ideal position detection

Mod.	Operation	Connections	Voltage	Output	Max. current	Max Load	Protection	L	S	LED colour
CSC-H-220	Reed	2 wires	10÷110 V AC/DC	PNP	50 mA	8 W / 10 VA	Against polarity reversing and overvoltage	2 m	10 mm	Red

In case of polarity reversing the sensor will still be operating, but the LED diode won't turn on.

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