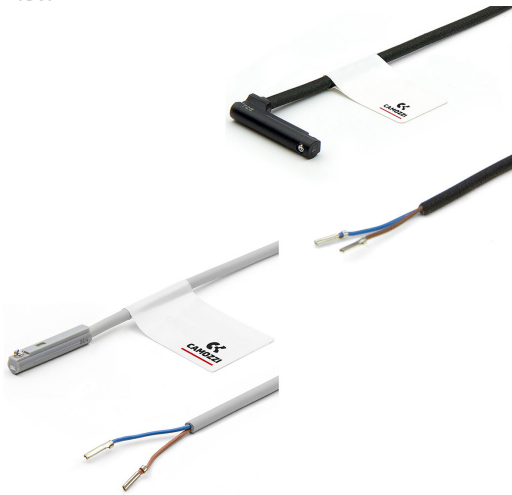


# MAGNETIC PROXIMITY SWITCHES

## SERIES CSC

### Reed Contact



The Mod. CSC magnetic proximity switch is designed to detect 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

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

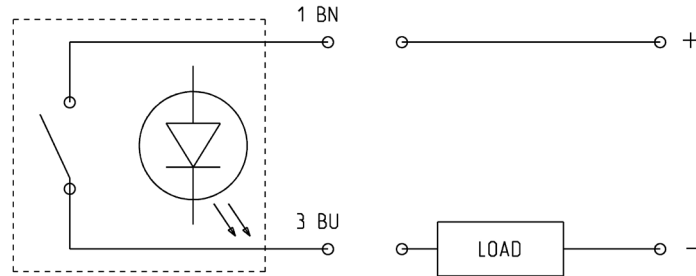
**MAGNETIC PROXIMITY SWITCHES**  
**SERIES CSC - CODING EXAMPLES**

**Coding Example**

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

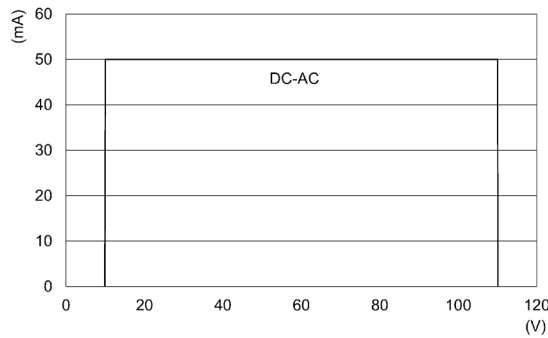
## Switches electrical connections

### Reed switches



**Legend:**  
 BN = brown  
 BU = blue

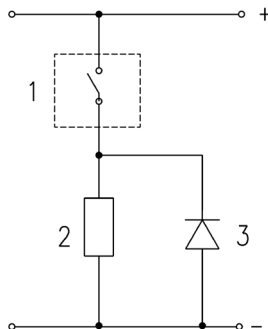
### Load curves of sensors Mod. CSC



### Electric circuit with protection against voltage spikes

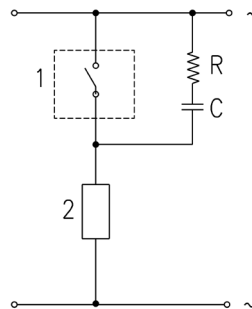
There is no protection on the Reed sensors on the inductive load, therefore it is advisable to use an electric circuit with protection against the voltage spikes.  
 See picture for a typical example.

#### DC applications



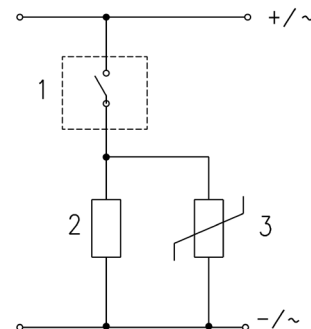
**Legend:**  
 1 = Sensor  
 2 = Load  
 3 = Protection diode

#### AC applications

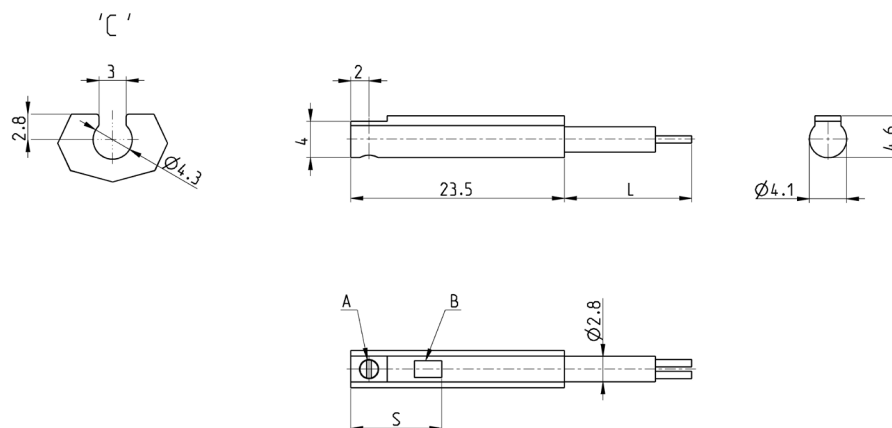


**Legend:**  
 1 = Sensor  
 2 = Load  
 C + R = Series of resistor and protection capacitor

#### DC and AC applications



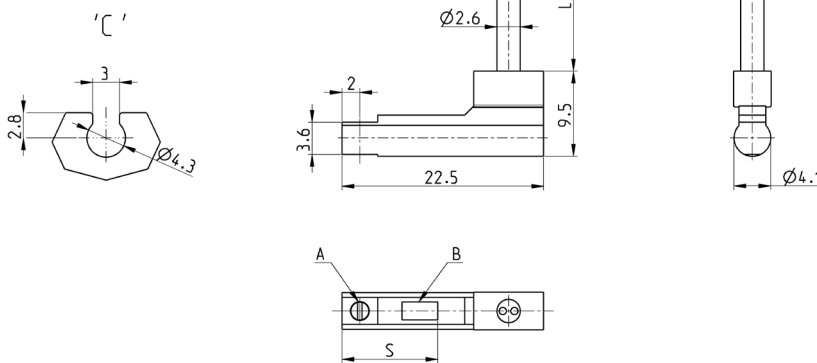
**Legend:**  
 1 = Sensor  
 2 = Load  
 3 = Protection varistor

**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.