MAGNETIC PROXIMITY SWITCHES
SERIES CSB

Reed Contact

The Mod. CSB magnetic proximity switch is designed to detects the piston position inside the gripper.
When exposed to the magnetic field generated by the piston magnet, it switches its internal contact and provides an output signal for a PLC or solenoid valve.

An LED immediately indicates switching, making on-machine checks and diagnostics easier.
Direct mounting on compatible models, in the dedicated housing, allows quick sensor positioning and reliable position feedback.

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

MAGNETIC PROXIMITY SWITCHES
SERIES CSB - CODING EXAMPLES

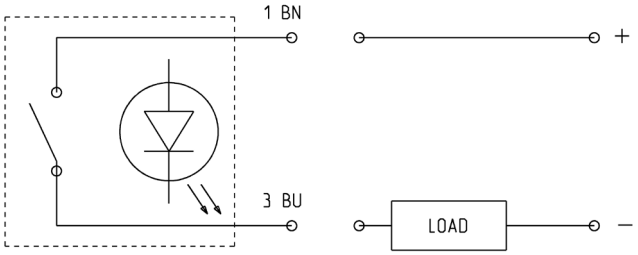
Coding Example

CS	B	D	2	2	0

CS	SERIES
B	TYPE OF SLOT B = B-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

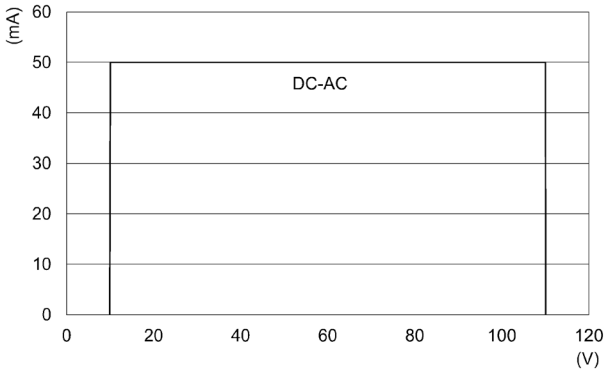
Switches electrical connections

Reed switches



Legend:
BN = brown
BU = blue

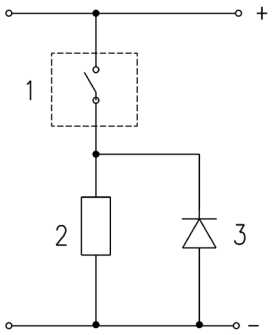
Load curves of sensors Mod. CSB



Electric circuit with protection against voltage spikes

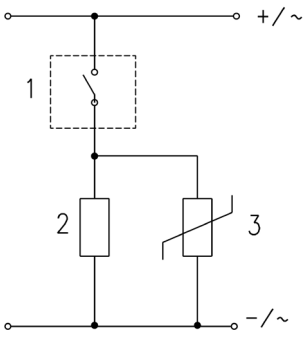
There is no protection on the Reed sensors on the inductive load, therefore it is advisable to use an electric ciruit with protection against the voltage spikes.
See picture for a typical example.

DC applications



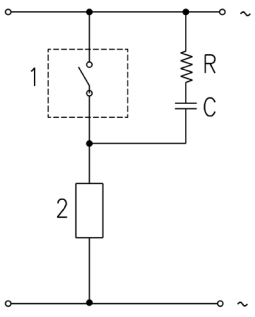
Legend:
1 = Sensor
2 = Load
3 = Protection diode

DC and AC applications



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

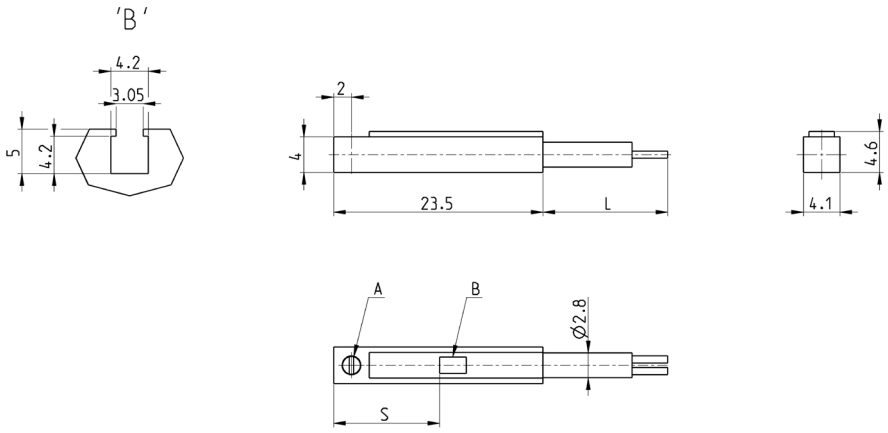
AC applications



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

MAGNETIC PROXIMITY SWITCHES
SERIES CSB - DIMENSIONS

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

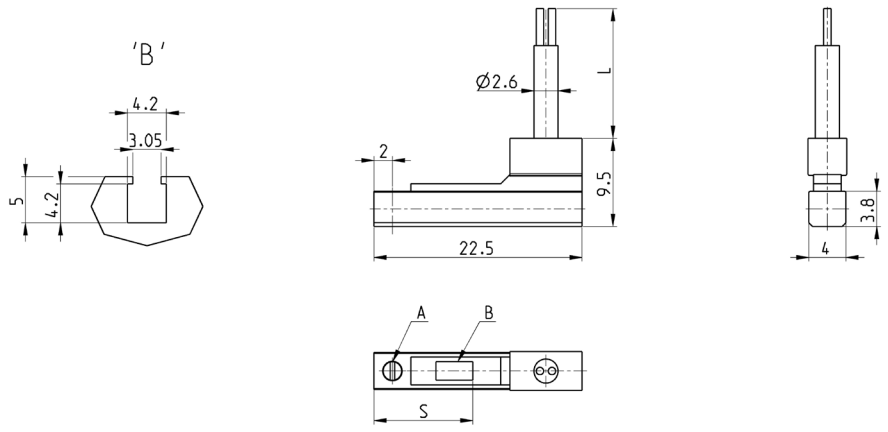


A = Fixing screw
B = Led indicator
S = Sensing point
L = Length cable

Mod.	Operation	Connections	Voltage	Output	Max. current	Max Load	Protection	L	S	LED colour
CSB-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 B-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
CSB-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.