## Magnetic Proximity Switches Series CSB and CSC

## Reed switches



The magnetic proximity switches CSB/CSC 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 | $3-110 \mathrm{~V} \mathrm{AC/DC}$ |
| Protection | IP66 |
| Material | Plastic body encapsulating epoxy resin |
| Mounting | directly into the groove |
| Signalling | by means of LED (red) |
| Electrical connections | $2 \times 0,14$ cable (2 m ) |
| Switching current | $3-50 \mathrm{~mA}$ |
| Max. load | $8 \mathrm{~W}, 10 \mathrm{VA}$ |
| Switching time | $<1 \mathrm{~ms}(1 / 1000$ sec $)$ |
| Operating temperature | $-10^{\circ} \mathrm{C}-60^{\circ} \mathrm{C},\left(14^{\circ} \mathrm{F}-140^{\circ} \mathrm{F}\right)$ |
| Type of contact | Normally Open |
| Weight | 18 g |
| Protection circuit | None |
| Output | - |

CODING EXAMPLE

| CS | B | - | D | - | 2 | 20 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| CS | SERRES |
| :--- | :--- |
| B | $\mathrm{B}=$ Square shape <br> $\mathrm{C}=$ Round shape |
| D | D $=$ straighteled <br> $\mathrm{H}=$ lead $90^{\circ}$ |
| 2 | ${ }^{2=\text { reed }}$ |

[^0]
## 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 10 m , 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 10 m , inductors shall be installed in series near the sensor to avoid ripple.
BN = Brown
BU = Blue
$C=$ Load
When $L$ is more than 10 mt . the cable has to be considered as an inductive load.


CSC - H-220


## Mod.

CSC-H-220


[^0]:    $\mathrm{BN}=$ brown
    $B U=$ blue

