1

Proximity switches Series CSN

Reed switch

It is designed so that it can be fixed directly on the tie-rod by means of two screws which assure the position longitudinal to the cylinder axle; and with a third screw for the anti-rotation positioning. The three terminals are indicated by the numbers 1, 2 and 3 and enable the following connections to be made (see the scheme).

The electrical proximity switch mod. CSN 2032-0 consists of a Reed switch complete with an electronic protection circuit and a red LED indicator all encapsulated in an insulated sealed casing.

GENERAL DATA

|	
Mod.	CSN 2032- 0
Voltage	from 12 to 220V AC and DC
Protection	IP54 / IP65 with connector DIN 43650
Material	glass-reinforced PA
Mounting	bracket for tie rod ø 6 ÷ ø 10
Signalling	integrated red LED
Electrical connection	DIN 43650 connector, Mod. 122-800
Max. current	1.5 A
Max. load	20 W DC - 30 VA AC
Actuating time	≤ 2 ms
Actuating tolerance	± 1mm
Operating temperature	- 25°C ÷ + 75°C
Type of contact	NO (normally open)

MOVEMENT

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Switches Series CSN

For cylinders Series 40 from ø 160 ÷ 250 (mounting band to be ordered separately).
For cylinders Series 41 from ø 160 - 200 (mounting band to be ordered separately).
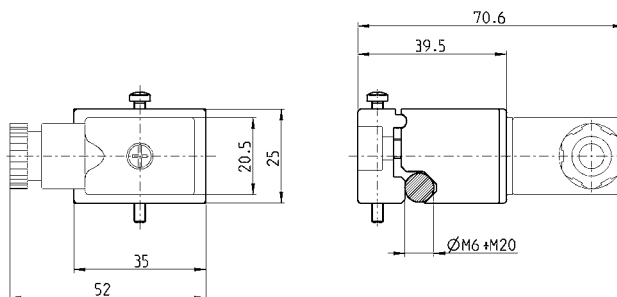
Mod.
CSN 2032-0

Mounting bracket for sensor

S21

S53
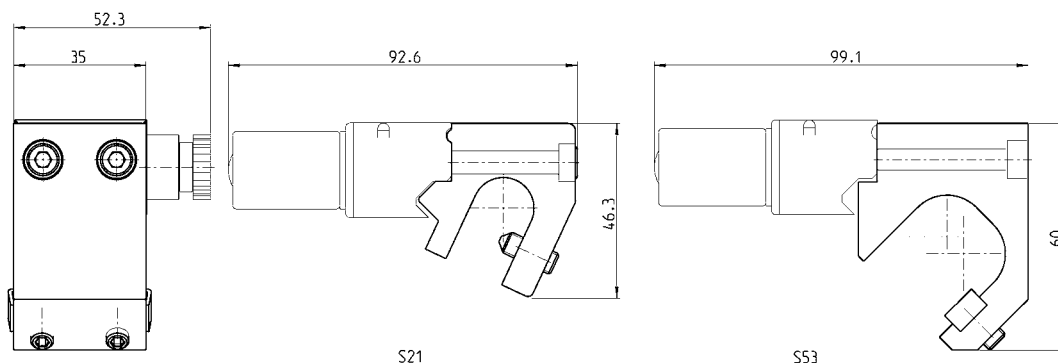
| Mod.	
S21	for cylinders Series 40 ø 160 - 200 and 250
S53	for cylinders Series 41 ø 160 and 200

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Maximum contact load

The maximum load (W) which the contacts are able to tolerate is that indicated in the section "General data", i.e.
- 20 W for direct current (DC)
- 30 VA for alternating current (AC)
The effective load allowed depends on the operating voltage (minimum 12 V, maximum 220 V) as shown in the following graph.

Note: this graph was obtained from practical tests performed using a load consisting of our Series A and 6 solenoid valves, at an operating speed of one stroke per second.
For higher operating speeds, your are advised to contact our technical department.
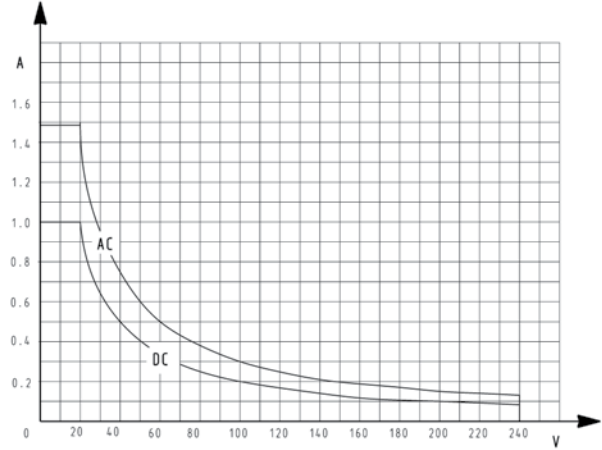
TECHNICAL DATA

CONNECTION
- For inductive loads = solenoid valves, electrical magnets, relay.
To connectors = terminals 1 - 2
- For capacitive loads = circuit with remaining tension (see PLC controls)
To connectors = 1 - 3

Note: For connections with wires of approximately 10m, the connection shall be made as for a capacitive load.

MAXIMUM LOADS
For maximum loads see relative diagram, those loads are valid only for inductive loads. For capacitive loads, using clamp 3 (or black wire) load must not exceed 80 mA and load must be given by PLC or, for electrical circuits, by microrelay or micro solenoid valves with 2W maximum consumption.

Note: When operating with direct current, clamp 1 must always be connected to the positive outlet (+). In cases where commands are given from the PLC and logic NPN, clamp 1 must be connected to the inlet. In cases where commands are given from the PLC and logic PNP, clamps 2 or 3 must be connected to the inlet.

LEGEND:
C1 = capacitive load
C2 = inductive load