CK CAMOZZI

## Series CST-CSV-CSH, CSB-CSC-CSD magnetic proximity switches

## Reed

Magnetoresistive - Hall effect (Series CST, CSV, CSH only)



- » Series CST, CSV, CSH: integrated into actuators profile, with or without M8 connector
- » Series CSB: for CGA-CGP-CGC grippers
- » Series CSC: for CGLN grippers
- » Series CSD: for CGSN-CGPT-CGPS-RPGB grippers

The switches are available in two different versions - Reed with mechanical switching and with electronic switching - and they are subdivided into Hall effect and Magnetoresistive. The electronic versions are suggested for heavy duty with frequent operations and strong vibrations.

The magnetic proximity switches define the position of the cylinder 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 yellow or led LED diode shows when the internal magnetic contact is closed.

_			
GENERAL DATA			
	Series CST, CSV, CSH	Series CSB, CSC, CSD	
Operation	Reed contact Magnetoresistive Hall effect	Reed contact (CSB, CSC only) Magnetoresistive (CSD only)	
Type of output	Static or electronic PNP		
Type of contact in Reed switches	Normally Open (NO), Normally Closed (NC)	Normally Open (NO)	
Voltage	see the characteristics of each model	see the characteristics of each model	
Max current	see the characteristics of each model	see the characteristics of each model	
Max load	8 W DC and 10 VA AC (Reed) 6 W DC (Magnetoresistive - Hall effect)	8 W DC and 10 VA AC 6 W DC (Magnetoresistive)	
Protection class	IP67	IP66	
Materials	plastic body encapsulating epoxy resin; cable in PVC, connector in PVR, connector body in PU	plastic body encapsulating epoxy resin	
Mounting	directly into the groove or by means of adapters	directly into the groove	
Signalling	by means of a yellow diode Led	by means of a red Led	
Protections	see the characteristics of each model	see the characteristics of each model	
Switching time	<1,8 ms (Reed) <1 ms (Magnetoresistive - Hall effect)	<1 ms	
Operating temperature	-10°C ÷ 80°C	-10°C ÷ 60°C	
Electrical duration	10000000 cycles (Reed) 1000000000 cycles (Magnetoresistive - Hall effect)		
Electrical connections	with a 2-wire cable, section 2x0.14, 2m (standard), high flexibility; with a 3-wire cable, section 3x0.14, 2m (standard), high flexibility; with a M8 connector and cable of 0.3 m	with a 2-wire cable, section 2x0.14, 2m (standard), high flexibility (CSB, CSC only); with a 3-wire cable, section 3x0.14, 2m (standard), high flexibility (CSD only); with a M8 connector and cable of 0.3 m (CSD only)	

MOVEMENT

	SERIES CST	. CSV.	CSH	CODING	<b>EXAMPLE</b>
--	------------	--------	-----	--------	----------------

CS T - 2 2 0 N - 5

CS SERIES TYPE OF SLOT: Т T = T-slot V = V-slot H = H-slot OPERATION: 2 2 = Reed NO 3 = Magnetoresistive 4 = Reed NC 5 = Hall effect CONNECTIONS: 2 2 = 2 wires (Reed only) 3 = 3 wires 5 = 2 wires with M8 connector (Reed only) 6 = 3 wires with M8 connector POWER SUPPLY VOLTAGE: 0 = 10 ÷ 110V DC; 10 ÷ 230V AC (PNP) 1 = 30 ÷ 110V DC; 30 ÷ 230V AC (PNP) 0 2 = 3 wires cst (PNP) 3 = 10 + 30V AC/DC (PNP) 4 = 10 + 27V DC (PNP) NOTE (CST/CSV-250N only): N N = according to norm LENGTH OF THE CABLE: = 2m (CST and CSV only) 5 2 = 2m (CSH only)

## SERIES CSB, CSC, CSD CODING EXAMPLE

CS B - D - 2 2 0 -

SERIES CS TYPE OF SLOT: В B = B-slot C = C-slot D = D-slot CABLE OUTPUT: D D = straight H = 90° 2 2 = Reed NC (CSB, CSC only) 3 = Magnetoresistive (CSD only) CONNECTIONS: 2 2 = 2 wires (CSB, CSC only) 3 = 3 wires (CSD only) 6 = 3 wires with M8 connector (CSD only) POWER SUPPLY VOLTAGE: 0 0 = 10 ÷ 110V DC/AC (CSB, CSC only) 4 = 10 ÷ 27V DC PNP (CSD only) LENGTH OF THE CABLE: = 2m (standard) 5 = 5m