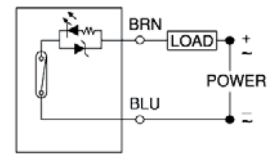# Pneumatic Equipment

Sensor Switch
(CS1-F CS1-U CS1-S CS1-J CS1-D CS1-G CS1-R Series)

Ordering Code

CS1 - F

Model | Type

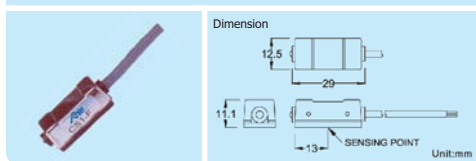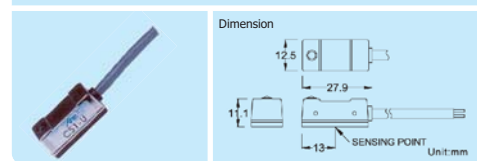CS1-F : Sensor switch for cylinder

Connect Diagram

Specifications

Model NO	CS1-F	CS1-U	CS1-S	CS1-J	CS-D	CS1-G	CS1-R
Wiring method	2 Wire type						
Switching logic	SPST Normally open						
Operating voltage	5~240V DC/AC						
Sensor type	Reed switch						
Switching current	100 mA max.					50 mA max.	
Contact rating	10 W max.					6 W max.	
Temperature range	-10 ~ 70°C						
Enclosure classification	IEC 529 IP67						
Indicator light	LED						

Sensor Switch type

CS1-F

Dimension

12.5
29
11.1
13 SENSING POINT
Unit:mm

CS1-U

Dimension

12.5
27.9
11.1
13 SENSING POINT
Unit:mm

CS1-S

Dimension

7
24
7
9 SENSING POINT
Unit:mm

CS1-J

Dimension

11
11 15.5 SENSING POINT
22

CS1-D

Dimension

5
29
4.3
6.2
13 SENSING POINT(KT-43R)

CS1-G

Dimension

4
25.5
4
10 SENSING POINT

CS1-R

Dimension

4
2.8 25.5
4.5
10 SENSING POINT
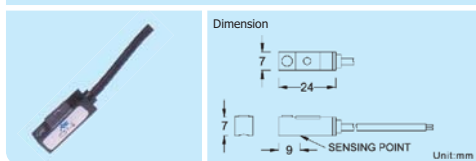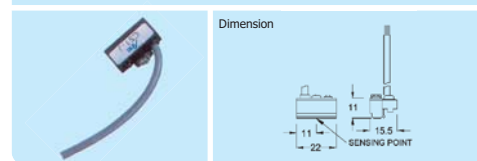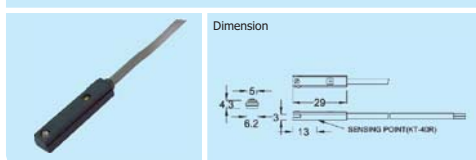
Sensor switch

CS1-M Series

Dimensions

24.5
6.9
6.9
8.8
4
2000±20
7±1
25±2
Sensing point
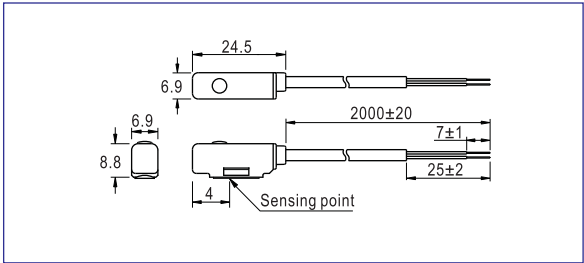
Ordering code

Model can to be changed Ordering code. Example:

Specification of sensor switch: DS1−M type

Model of sensor switch: two-line magnetic spring pipe with contact, without indicator light/normally opened

Connecting way: length of wire is 2m

Body mateial: Aluminum alloy

Bore size: 32mm

Model: CS1−M P-020-A 32

Ordering code: CS1 M X 020 A 32

Number of sensor switch ●   ● Bore size

Specification of sensor switch ●   ● Body material

S: Stainless steel
A: Aluminum alloy

Model of sensor switch ●

Blank: two-line magnetic spring pipe with contact/ normally opened
X: two-line magnetic spring pipe with contact, without indicator light/normally opened

● **Connecting way**

C08: M8 quick joint, length of wire is 150mm
C12: M12 quick joint, length of wire is 150mm
020: length of wire is 2m
030: length of wire is 3m
050: length of wire is 5m
100: length of wire is10m

Sensor switch

Specification

Item\Type		CS1-M	CS1-MX
Switch logic		STSP Normally opened type	
Switch type		Reed switch with contact	
Operating voltage(V)		5~240V AC/DC	
Max. Switching current(mA)		100	
Switching rating(W)		Max. 10	
Current consumption		No	
Voltage drop		2.5V Max. @100mA DC	
Cable		Φ3.3,2C Gray oil resistant PVC (Flame retarded)	
Indicator		Red LED	No
Leakage current		No	
Sensitivity(Gauss)	S06~S10	45~55	
	S12~S16	55~65	
	S20~S63	65~75	
	A20~A40	65~75	
Max. Frequency(Hz)		200	
Shock(m/s²)		300	
Vibration(m/s²)		90	
Temperature range(℃) ①		-10~70	
Enclosure classification		IP67(NEMA6)	
Protection circuit		No	

①Note: Please contact us for high remperature resistant(125℃),low remperature resistant(−40～−25℃) and explosion-proof sensor switch.

Explain of model

CS1−M X−020−S 06

Number of sensor switch

CS1: Sensor switch

Specification of sensor switch

Specification	Product Series
M: M type	PB/MA/MAL/MI/MF

Model of sensor switch

Blank: two-line magnetic spring pipe with contact/ normally opened
X: two-line magnetic spring pipe with contact, without indicator light/normally opened

Connecting way ①

C08: M8 quick joint, length of wire is 150mm
C12: M12 quick joint, length of wire is 150mm
020: length of wire is 2m
030: length of wire is 3m
050: length of wire is 5m
100: length of wire is10m

Bore size

Body material	Bore size
Aluminum alloy	20: Φ20mm
	25: Φ25mm
	32: Φ32mm
	40: Φ40mm
Stainless stee	06: Φ6mm
	08: Φ8mm
	10: Φ10mm
	12: Φ12mm
	16: Φ16mm
	20: Φ20mm
	25: Φ25mm
	32: Φ32mm
	40: Φ40mm
	50: Φ50mm
	63: Φ63mm

Body material

S: Stainless steel
A: Aluminum alloy

① Note: The quick joint that is attached at the end of wire is three-needle-male joint-linear-rotary screw thread type. The female joint plug has to be ordered additionally. Please refer to P426 for the specific data.

Mounting

CS1-M, CS1-MX(MI, PB, MA, MAL, MF Series)	
Installation example	Installation method
Sensor switch, Body, Fastening screw, Band unit	No additional accessories are necessary for the sensor switch of CS1-M, CS1-MX series. It can be directly fixed onto the cylinder, which is convenient and fast. 1. Strap band round the cylinder barrel. Snap the clamping screw into button orifice and adjust it to the proper position. Properly tighten the clamping screw to fix.