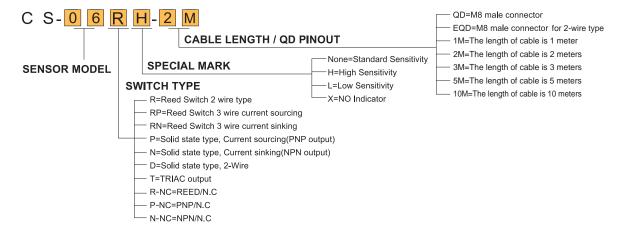
2-01 ORDERING INFORMATION

CONNECTION METHOD

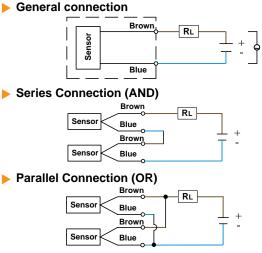
Magnetic Sensor

ORDERING INFORMATION

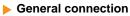


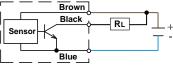
CONNECTION METHOD



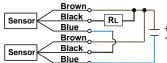


3 wire NPN connection

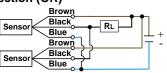


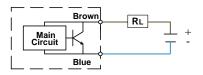


Series connection (AND)



Parallel connection (OR)

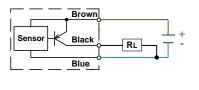


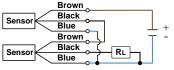


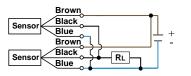
When connecting 2-wire sensors in series (AND), don't exceed more than two sensors due to the internal voltage drop (Typical V drop=2.5~4V per switch). Excessive Voltage drop will cause non-operation of the load.

- 1. When connecting non-contact 2-wire sensors in parallel (OR), leakage current will increase and cause improper load operation.
- 2. When connecting 2-wire reed sensors in parallel(OR), possible concurrent operation will cause dim LED illumination due to lower current distribution.

3 wire PNP connection

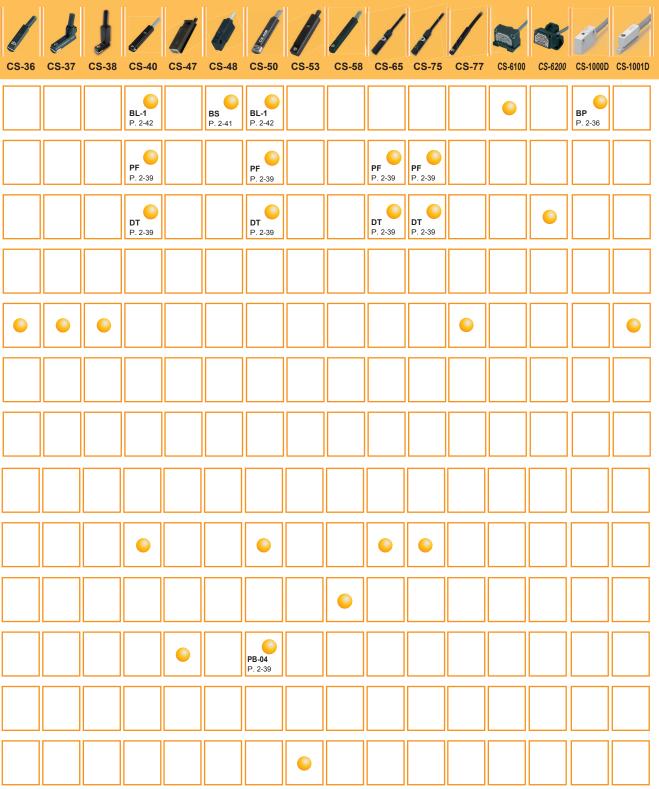






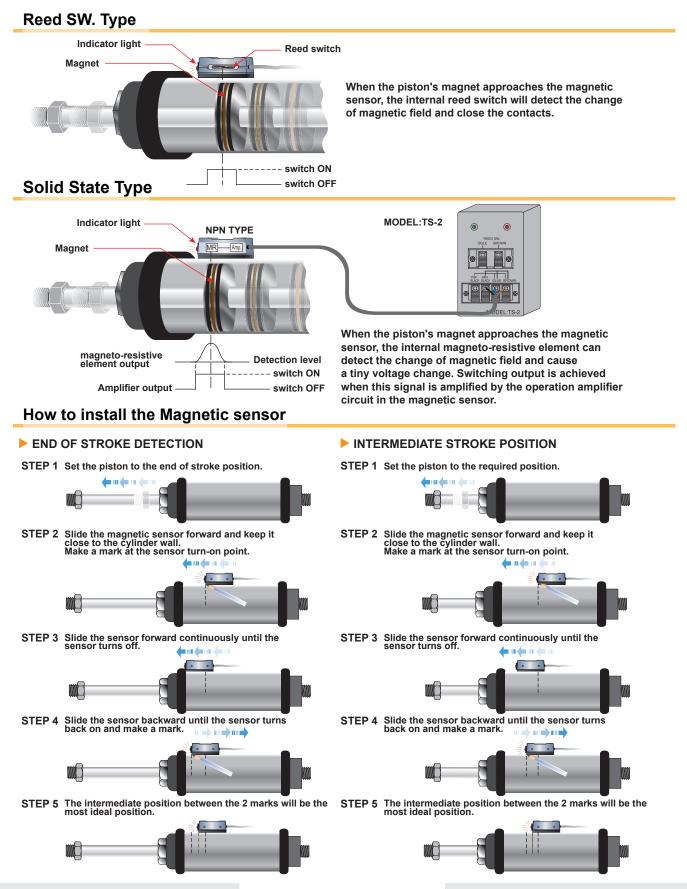
Cylinder / Magnetic SW. Cross Index

	CS-05	CS-06			· · ·			CS-21		CS-31	CS-32	CS-33		CS-36	CS-37	J CS-38	CS-40	c
Round cylinder	BK P. 2-41				BK P. 2-41			PN PH PAB P. 2-40		PAB P. 2-40							BL-1 P. 2-42	
ISO profile cylinder								PI P. 2-38		PI P. 2-38	PF P. 2-39						PF P. 2-39	
Tie-rod cylinder								PM PAC P. 2-38		PAC P. 2-38	DT P. 2-39						DT P. 2-39	
		•																
2.55 ¢ 4.25			•			•	•							•	•	•		
				•														
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												•						
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MAGNETIC SENSOR OPERATION & INSTALLATION

Magnetic Sensor



Magnetic Sensor

Brown

BLUE

(PNP Output)

Brown

Black

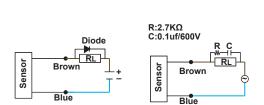
Blue RL

ower

• *

1.Do not exceed specification, permanent damage to the sensor may occur.

- 2.For reed switch type sensors, polarity must also be observed for the proper function of LED. Connect the brown wire in series with load positive (+) and the blue wire to negative (-) of power source. If the polarity is reversed, reed sensor remain functional but LED will remain in "OFF" state.
- 3.For solid-state type sensors, polarity must also be observed. Connect brown wire to the positive (+) and the blue to the negative (-) of DC power source. The black wire must connect to the load only. If the black wire is accidentally connected to the power source, permanent damage to the sensor may occur.
- 4.An external protection circuit may be required if the reed sensor is used with inductive load, such as relay or solenoid. For DC inductive load, attach an external diode parallel to the load and use R-C circuit parallel with AC inductive load as illustrated below.



ower

(NPN Output)

Ma

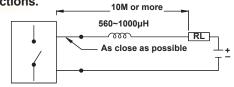
Brown

Blue

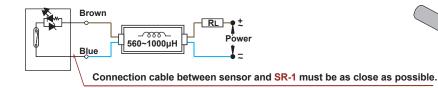
Black RL

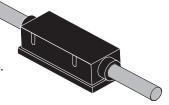
5.Keep sensors away form strong magnetic field to prevent malfunctions.

6.When using reed sensor with capacitive load or if the lead wire length exceed 10-meter, an inductor (560 \sim 1000 µH) or SR-1 (surge suppressor) must be installed in series with the sensor to prevent damage (Sticking effect).

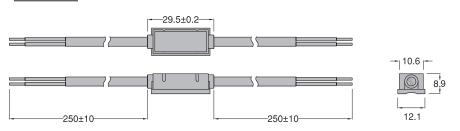








DIMENSION



Unit:mm

www.adsens.net