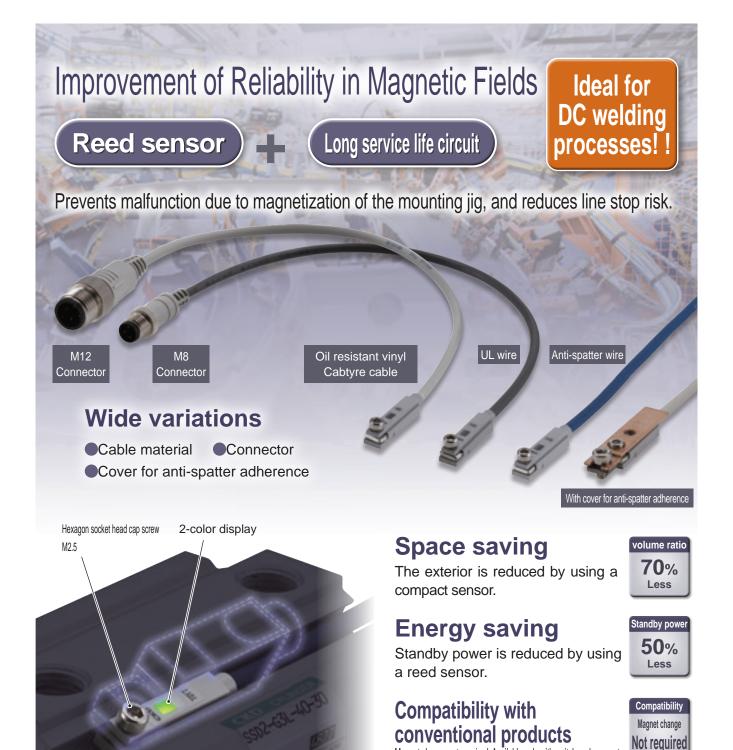


Cylinder Switch for Magnetic Fields
SW-TOY



Magnet change not required. Available only with switch replacement.

Degree of protection

Dust/waterproof standard

"IP67" compatible.

IP67

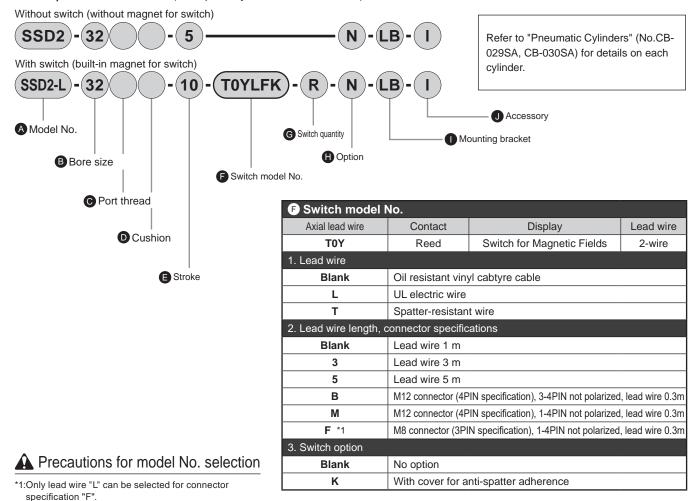
Compatible

SW-T0Y* Series

Switch compatible model list

Compatibility	Bore size	
Small bore size cylinder	CMK2	ø32, ø40
Round shaped cylinder	SCM	ø32 to 100
Tie rod cylinder	SCG	ø40 to 100
cylinder	SCA2	ø40 to 100
cylinder	SCS2	ø125 to 250
Compact cylinder	SSD2	ø32 to 200
Guided super compact cylinder	SSG	ø32 to 100
Compact cylinder	SSD	ø32 to 160
Stopper cylinder	STK	ø32 to 50
Guided cylinder	STG	ø32 to 80
Guided cylinder	STS/L	ø32 to 100
Tie rod cylinder with brake	JSG	ø40 to 100
Brake cylinder (medium bore size)	JSC3	ø40 to 100
Brake cylinder (large bore size)	JSC4	ø125 to 180
Position locking compact cylinder	USSD	ø40 to 63
High energy absorption cylinder	HCM	ø32 to 63
Clamp cylinder	CAC4	ø40 to 80
Position locking clamp cylinder	UCAC2	ø50, ø63
Lightweight clamp cylinder	CAC-N	ø32, ø40
Lightweight clamp cylinder	UCAC-N32	ø32, ø40
Rotary clamp cylinder	RCS2	ø32 to 63
Rotary clamp cylinder	RCC2	ø32 to 63
Pin clamp cylinder	PCC	(ø20, 50)

Example of model No.(Compact cylinder SSD2 Series)





Specifications

lt a un	Reed 2-wire			
Item	T0Y	T0YL	T0YT	
Applications	Dedicated for programmable controller			
Switch polarity	No polarity			
Load voltage	24 VDC ±10%			
Load current	5 to 20 mA (*1)			
Internal voltage drop	4.5 V or less			
Leakage current	0.5 mA or less			
Display lamp	Red/green LED (Lit when ON)			
Lead wire length	1 m (oil resistant vinyl cabtyre cable 2-conductor 0.2mm²)	1 m (flame-resistant cabtyre cable 2-conductor 0.2mm ² UL acquired line	1 m (flame-resistant vinyl cabtyre cable 2-conductor 0.2mm²)	
Insulation resistance	500 MΩ and over with 20 VDC megger			
Withstand voltage	No failure after 1000 minute of 1 VAC application.			
Shock resistance	294m/s ²			
Ambient temperature	-10 to +60°C			
Degree of protection	IEC standards IP67 JISC0920 (water-tight)			
Contact protection circuit	None			
Weight	1m: 18g 3m: 49g 5m: 80g			
Weight of connector only	M12: Connector code B/M:10g M8: Connector code F:4g			

^{*1:} Max. load current: 20mA at 25°C. The current is lower than 20mA if the operating ambient temperature is higher than 25°C. (5 to 10mA at 60°C)

How to order

2-wire cylinder switch M)(K T₀Y Code Description A Lead wire A Lead wire Blank Oil resistant vinyl cabtyre cable UL electric wire Т Spatter-resistant wire **B** Lead wire length, connector specifications B Lead wire length, **Blank** Lead wire 1 m connector specifications 3 Lead wire 3 m 5 Lead wire 5 m M12 connector (4PIN specification), 3-4PIN not polarized, lead wire 0.3m В M12 connector (4PIN specification), 1-4PIN not polarized, lead wire 0.3m F *1 M8 connector (3PIN specification), 1-4PIN not polarized, lead wire 0.3m **©** Option Option Blank No option

With cover for anti-spatter adherence

^{*1:} Only lead wire "L" is available for connector specification "F".

SW-T0Y* Series

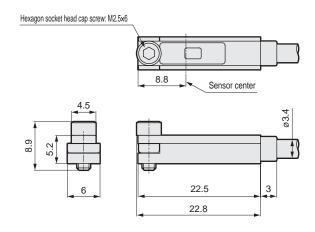
Connector pin array

Type of	Connector pin array				
connector	Code	1PIN	2PIN	3PIN	4PIN
M12 (4PIN	В	N.C.	N.C.	±	±
specifications)	М	±	N.C.	N.C.	±
M8 (3PIN specifications)	F	±		N.C.	±

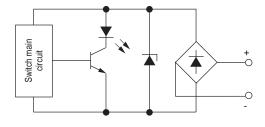
Connector specifications

Item	M8	M12	
Pin array	1 0 3	3 2 4 1	
Shock resistance	294m/s ²		
Degree of protection	IP67		
Insulation resistance	500 MΩ with 100 VDC megger		
Withstand	1000 VAC 1 min. (between contacts and between		
voltage	contact housings) leakage current 1 mA or less		

Dimensions



Switch internal circuit diagram



Safety precautions

Be sure to read this section before use. "Pneumatic Cylinders I and II" (No. CB-029SA, CB-030SA).

CAUTION

- When using the product in a welding process where a magnetic field disturbance is generated, control the amount of signal canceling on the load side during welding. (There is no function to cancel the magnetic field during welding.)
- When attaching a stopper to the head side of the guided cylinder (25st or less), use a non-magnetic material for the mounting bolt and stopper.

If the goods and/or their replicas, the technology and/or software found in this catalog are to be exported from Japan, Japanese laws require that the exporter makes sure that they will never be used for the development and/or manufacture of weapons for mass destruction.

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