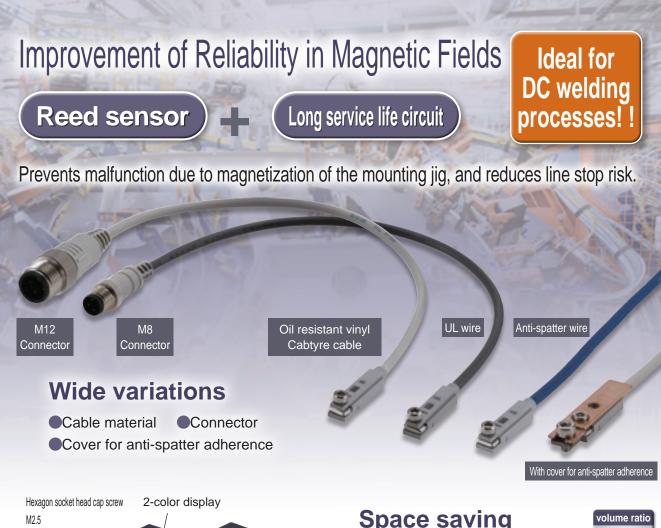
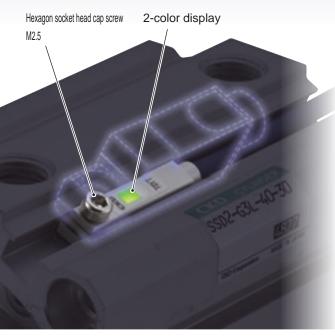


Cylinder Switch for Magnetic Fields SW-T0Y





Space saving

The exterior is reduced by using a compact sensor.



Energy saving

Standby power is reduced by using a reed sensor.



Compatibility with conventional products

Magnet change not required. Available only with switch replacement.



Degree of protection

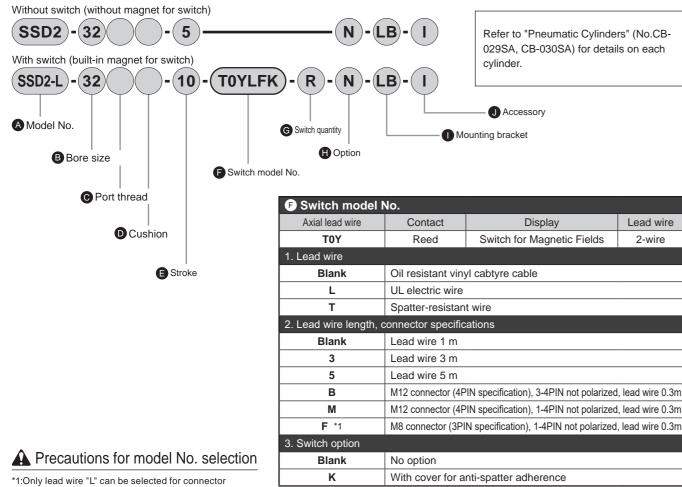
Dust/waterproof standard "IP67" compatible.



Switch compatible model list

Owner companie modernot					
Compatibility		Bore size			
Small bore size cylinder	CMK2	ø32, ø40			
Round shaped cylinder	SCM	ø32 to ø100			
Tie rod cylinder	SCG	ø40 to ø100			
Medium bore size cylinder	SCA2	ø40 to ø100			
Medium bore size cylinder	SCS2	ø125 to ø250			
Compact cylinder	SSD2	ø32 to ø200			
Guided super compact cylinder	SSG	ø32 to ø100			
Compact cylinder	SSD	ø32 to ø160			
Stopper cylinder	STK	ø32 to ø50			
Guided cylinder	STG	ø32 to ø80			
Guided cylinder	STS/L	ø32 to ø100			
Tie rod cylinder with brake	JSG	ø40 to ø100			
Brake cylinder (medium bore size)	JSC3	ø40 to ø100			
Brake cylinder (large bore size)	JSC4	ø125 to ø180			
Position locking compact cylinder	USSD	ø40 to ø63			
High energy absorption cylinder	HCM	ø32 to ø63			
Clamp cylinder	CAC4	ø40 to ø80			
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 ø63			
Rotary clamp cylinder	RCC2	ø32 to ø63			
Pin clamp cylinder	PCC	(ø50)			

Example of model No.(Compact cylinder SSD2 Series)

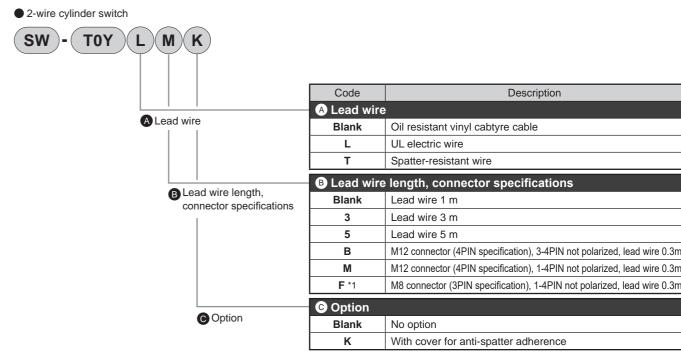


Specifications

ltom.	Reed 2-wire			
Item	TOY	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	20 MΩ and over with 500 VDC megger			
Withstand voltage	No failure after 1 minute of 1000 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



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

SW-T0Y* Series

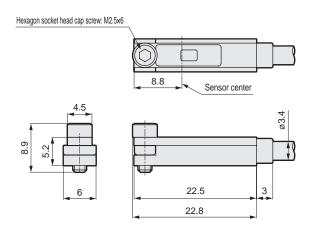
Connector pin array

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

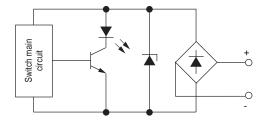
Connector specifications

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

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