### Series option

## T type cylinder switch with off delay timer T2JH/T2JV



#### Overview

Optimum for intermediate detection of high speed cylinder. Off delay timer realizes secure PC input.

#### Features

- PC input malfunctions at cylinder intermediate detection are prevented.
- · Off delay timer 200±50 ms
- · Installation to rodless cylinder SRL3 is possible.
- · A great variety of cylinders.
  - \* Made-to-order product when a switch is installed on the cylinder.
  - \* Switchs are limited depending on cylinder. Refer to each cylinder page for the details.

## T type cylinder switch coolant proof T2YLH/V, T3YLH/V



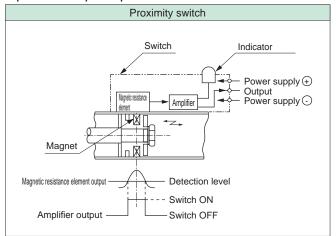
### Overview

This is a cylinder switch that prevents coolant for machine tools used at machining site, etc., from entering the cylinder switch.

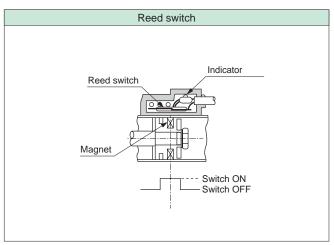
### Features

- Oil resistance increased by applying coating to the circuit hoard
- Usable even in an environment exposed to coolant.
- · A great variety of cylinders
  - \* Made-to-order product when a switch is installed on the cylinder.

#### Operational principle

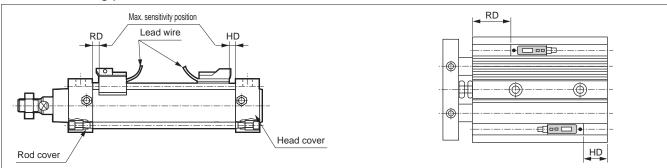


The magnetic field changes when the piston's magnet approaches, and the magnetic resistance element's output voltage changes as shown in the figure. Switching output as shown above is attained when this signal is amplified.



The magnetic field is generated when the piston's magnet approaches, and the contact matching the reed switch direction is magnetized to generate an attraction force and close the contact.

### Switch mounting position



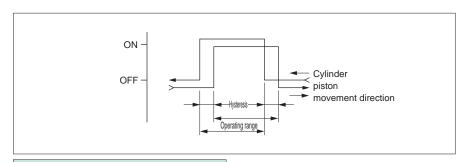
Stroke end installation

To check that the switch functions at the max. sensitivity position, mount 1 each at the rod side RD dimension position and at the head side HD dimension position.

HD and RD dimensions differ based on a cylinder. Refer to each cylinder dimension. Mount the switch so the lead wire comes to the inside as shown above.

● Intermediate stroke position installation In detection at the middle of the stroke, fix the piston at the stop position, and move the switch back and forth over the piston. Find the position where the switch turns ON first. The point between these 2 positions is the max. sensitivity position at that piston position, and is the installation position.

● Circumference direction installation
Differs depending on mounting bracket.
When using a band, no limits are set on circumference direction. When using a tie rod, the position can be rotated in 90° increments. Circumferential rotation is not possible for the rail method.



### Operating range

● The operating range is from the point where the piston moves and the switch turns ON to the point where the piston moves further in the same direction and the switch turns OFF.

The center of the operating range is max. sensitivity position. If this position is set as the piston stop position, it is not affected by disturbance and switch operation is stable.

### Hysteresis

• Hysteresis is the distance from the point where the piston moves and the switch turns ON to the point where the piston moves in the reverse direction and the switch turns OFF. If the piston stops between these points, switch operation becomes unstable and is easily adversely affected by external sources. Please be careful.

Operating range	and hyste	resis of ea			th switch			(Unit: mm
	Bore			y switch		Reed switch	h	
Model No.	size		ng range		eresis	Operating range	Hysteresis	Page
	(mm)	1-color type	2-color type	1-color type	2-color type	Operating range	l lysteresis	
Pencil shaped cylinder	Applica	able switch:	Proximity sw	vitch (T2□, ¯	T3□, T2W□	, T3W⊡), reed swi	tch (T0	_, T5 <u></u> )
	ø6	1.5 to 4	2.5 to 5			4 to 6		
SCP*3	ø10	1.5 to 5.5	2.5 to 6	1.5 or less	1.0 or less	3.5 to 7	3 or less	I-3
	ø16	2 to 6	2.5 to 6			3.5 to 7.5		
Madium have size sulinday	Annliaghla s	switch: Drawinsites	witch /TOP TOP	TADO TA IO TA		TOV T10 road quita	L (TO TE	T0-\
Medium bore size cylinder				13P□, 12J□, 12	VV□, 13VV□, 1∠YL		n (10∟, 15∟ T	, ≀ठ∟)
	ø20	2.5 to 5.5	3.5 to 7.5			6.5 to 11		
CMK2	ø25	2.5 to 5.5	3.5 to 7.5	1.5 or less	1.0 or less	7.5 to 12	3 or less	I-79
·····	ø32	2.5 to 6	3.5 to 8			6.5 to 11.5		
	ø40	3 to 7	4 to 9			7.5 to 13.5		
Medium bore size cylinder	<ul><li>Applicable s</li></ul>	switch: Proximity s	witch (T2□, T3□,	T3P□, T2J□, T2'	 W□, T3W□, T2Y[	, _, T3Y□, T1□), reed switcl	h (T0□, T5□	], T8 <u></u> )
	ø20	3 to 6	5 to 6.5			8.5 to 12		
CMA2	ø30	3 to 5.5	6 to 7	1.5 or less	1.0 or less	8 to 13	3 or less	I-191
OWAZ	ø40	2.5 to 5.5	5.5 to 7.5			8.5 to 12.5	1	
Round shaped cylinder	<ul> <li>Applicable sw</li> </ul>	ritch: Proximity swit	ch (T2⊡, T3⊡, T3F	P∐, T2J□, T2W□,	T3W□, T2Y□, T3	Y□, T2YD, T1□), reed switc	ch (TO□, T5□	J, T8□)
	ø20	3 to 8	4.5 to 9			6 to 14		
	ø25	3 to 9	5 to 9			5 to 14	ļ	
	ø32	3 to 8	5 to 9	1.5 or less		5 to 12	3 or less	
SCM	ø40	3 to 9	5.5 to 9.5		1.0 or less	6 to 14		I-213
SCIVI	ø50	3 to 9	6 to 10	1.0 01 1033	1.0 01 1033	6 to 14	0 01 1033	1213
	ø63	3 to 9	6 to 10.5			7 to 15		
	ø80	4 to 10	6.5 to 11			7 to 15		
	ø100	4 to 10	7 to 11.5			9 to 15		
Tie rod cylinder	Applicable st	witch: Proximity swi	itch (T2□. T3□. T3	P□. T2J□. T2W□.	. T3W□. T2Y□. T3	Y□, T2YD, T1□), reed switc	h (T0□. T5□.	. T8□)
	ø32	2 to 7	6 to 9	T =,,,		6 to 11		, , 
	ø40	2 to 7	6.5 to 9			7 to 12		
	ø50	2 to 7	7 to 10			7.5 to 12		
SCG	ø63	2 to 7.5	7 to 10	1.5 or less	1.0 or less	8.5 to 13	3 or less	I-335
	ø80	2.5 to 8	7.5 to 10.5			9 to 13.5	1	
	ø100	2.5 to 8	8 to 11			9 to 14	1	
	2100	2.0 to 0	0 10 11			0 10 11		
Medium bore size cylinder	Applicable s	witch: Proximity swi	itch (T2□, T3□, T3	P□, T2J□, T2W□,	, T3W□, T2Y□, T3	Y□, T2YD, T1□), reed switc	h (T0□, T5□,	, T8□)
	ø40	2 to 7	3 to 10			5 to 12.5		
	ø50	2 to 7.5	3 to 10			5.5 to 13.5	1	
SCA2	ø63	2.5 to 7.5	3.5 to 10.5	1.5 or less	1.0 or less	5.5 to 14	3 or less	I-427
	ø80	3 to 8	4 to 11.5			6.5 to 14.5		
	ø100	3 to 8.5	4 to 11.5			6.5 to 15.5		
Medium bore size cylinder	<ul><li>Applica</li></ul>	ble switch: F	Reed switch	for strong m	agnetic field	ds (H0⊡) ∗ <sub>The valu</sub>	es in ( ) ind	dicate H0\
	ø40					4 to 7.5(10.5 to 13.5)		
	ø50					4 to 7.5(11 to 14)		
SCA2-L2	ø63		-	-	-	5 to 8(11.5 to 14.5)	3 or less	I-427
	ø80					5 to 8(10.5 to 14.5)		
	ø100					5 to 8(10.5 to 14.5)		
Large bore size cylinder	Annlicable of	witch: Provimity swi	itch (T2 T2 T2	P□ T2 I□ T2\N□	T3W□ T2V□ T2	Y T2YD T1 road switch	h (T0□ T5□	T8□\
Large bore size cyllilder	ø125	7.5 to 14	14 to 21	· □, · ∠∪□, · L ∨ ∨ □,	, 1011 <u> </u> , 121  , 13	i i i i i i i i i i i i i i i i i i i	(10 <u>□</u> , 10 <u>□</u> ,	10二)
	Ø125	7.5 to 14	18 to 26					
SCS2	ø140 ø160	7.5 to 14	18 to 26	1.5 or less	1.0 or less	11 to 16	3 or less	1-605
3632				i.o or iess	1.0 or less	11 10 10	3 OF TESS	1-000
	ø180 ~200	7.5 to 14	18 to 26					
	ø200	7.5 to 14	18 to 26					I

### Operating range, hysteresis

	Bore			y switch		Reed switc	h	
Model No.	size		ng range		eresis	Operating range	Hysteresis	Page
	(mm)	1-color type	2-color type	1-color type	2-color type	Operating range	liysteresis	
Tie rod cylinder	Applicable s	witch: Proximity s	witch (T2□, T3□,	T3P□, T2J□, T2\	<i>N</i> □, T3W□, T2Y□	□, T3Y□, T1□), reed switc	h (T0□, T5□	, T8□)
	ø20	2.5 to 5.5	3.5 to 7.5			6.5 to 11		
CKV2	ø25	2.5 to 5.5	3.5 to 7.5	1.5 or less	1.0 or less	7.5 to 12	3 or less	1.650
CRVZ	ø32	2.5 to 6	3.5 to 8	1.5 01 1655	1.0 01 1655	6.5 to 11.5	3 01 1688	1-039
	ø40	3 to 7	4 to 9			7.5 to 13.5		
Tie rod cylinder	Annlicable su	vitch: Provimity swi	 tch (T2□ T3□ T3			Y□, T2YD, T1□), reed switc	h /T0□ T5□	T8□\
•			, , ,	I, IZU, IZVV,	1000, 121, 10		II (10□, 13□,	10_)
CAV2-L	ø50	3.8 to 6.7	4 to 6		0.7	7.7 to 8.3	1	
COVP2-L COVN2-L	ø75	3.8 to 6.7	4 to 6	0.8 or less	0.7 or less	7.7 to 8.3	1 or less	1-687
30 VIVE E	ø100	3.8 to 6.7	4 to 6			7.7 to 8.3		
Compact cylinde	Applicable sw	vitch: Proximity swi	tch (T2□, T3□, T3	 P□, T2J□, T2W□,	T3W□, T2Y□, T3	Y□, T2YD, T1□), reed switc	h (T0□, T5□,	T8_)
	ø12	1.5 to 5.5	3 to 6			5 to 8		
	ø16	1.5 to 4.5	3 to 7			4 to 9		
SSD2	ø20	3 to 8	4.5 to 8			6 to 14		
	ø25	3 to 9	4.5 to 8			5 to 14	1	
	ø32	3 to 8	4.5 to 8			5 to 12	]	I-729
	ø40	3 to 9	5 to 8.5			6 to 14	1	
	ø50	3 to 9	5.5 to 9.5	1.5 or less	1.0 or less	6 to 14	3 or less	
	ø63	3 to 9	5.5 to 9.5			7 to 15	1	
	ø80	4 to 10	6 to 10			7 to 15	1	
	ø100	4 to 10	6 to 10			9 to 15	1	
	ø125	4 to 10	8 to 10			9 to 15	1	
	ø140	4 to 10	8 to 10			9 to 15	1	
	ø160	4 to 10	8 to 10			9 to 15	<u></u>	
Compact cylinder	• Applicab	le switch: Re	eed switch (	ETO□)				
	ø16					8 to 11.5		
	ø20					9 to 13.5		
	ø25					9.5 to 14	]	
SSD2-T1L	ø32		-	-	-	9 to 13	3 or less	I-729
	ø40					9 to 14		
	ø50					11 to 16	1	
	ø63					13 to 18		
Compact cylinder	Applicable swit	tch: Proximity switch		 □, T2J□, T2W□, 1			(T0□, T5□, 1	Γ8□)
	ø12	1.5 to 5.5	3 to 6			5 to 8		
	ø16	1.5 to 4.5	3 to 7			4 to 9	1	
	ø20	3 to 8	4.5 to 8	1		6 to 14	1	
	ø25	3 to 9	4.5 to 8	1		5 to 14	1	
000	ø32	3 to 8	4.5 to 8	4.5	4.0	5 to 12	2 2 2 1 2 2	1 40 40
SSG	ø40	3 to 9	5 to 8.5	1.5 or less	1.0 or less	6 to 14	3 or less	1-1049
	ø50	3 to 9	5.5 to 9.5	1		7 to 15	1	
	00			1		7 to 15	1	
	ø63	3 to 9	5.5 to 9.5		7 10 15			

ø100

4 to 10

6 to 10

9 to 15

Operating range	and hyste	resis of ea			th switch			(Unit: mn
	Bore			ty switch		Reed switc	h	
Model No.	size		ng range		eresis	Operating range	Hysteresis	Page
	(mm)	1-color type	2-color type	1-color type	2-color type	Operating range	liyoteresis	
Compact cylinder				P□, T2J□, T2W□,	T3W□, T2Y□, T3		h (T0□, T5□,	T8□)
	ø12	1.5 to 5.5	3 to 6			5 to 8		
	ø16	1.5 to 4.5	3 to 7	ļ		4 to 9	1	
	ø20	3 to 8	4.5 to 8			6 to 14		
	ø25	3 to 9	4.5 to 8	_		5 to 14	1	
	ø32	3 to 8	4.5 to 8			5 to 12		
	ø40	3 to 9	5 to 8.5			6 to 14	_	
SSD	ø50	3 to 9	5.5 to 9.5	1.5 or less	1.0 or less	6 to 14	3 or less	I-1065
	ø63	3 to 9	5.5 to 9.5	ļ		7 to 15		
	ø80	4 to 10	6 to 10			7 to 15		
	ø100	4 to 10	6 to 10	_		9 to 15		
	ø125	4 to 10	8 to 10			9 to 15		
	ø140	4 to 10	8 to 10	ļ		9 to 15		
	ø160	4 to 10	8 to 10			9 to 15		
Compact cylinder	r  Applicat	ole switch: R	eed switch (	ET0□)				
,	ø16					8 to 11.5		
	ø20					9 to 13.5	1	
	ø25	1				9.5 to 14	1	
SSD-T1L	ø32	<b>.</b>	_	_	_	9 to 13	3 or less	I-1065
005	ø40	1				9 to 14		
	ø50					11 to 16		
	ø63	1				13 to 18	1	
Small direct mounting cylinde	r  Applicat	ole switch: Pi	roximity swit	tch (F2□, F3	B□), reed sw	vitch (F0□)		
	ø6	T				,		1
MDC2	ø8	1.5 to 3.5	_	1.0 or less	_	3.5 to 6.0	1.0 or	
	ø10						less	
	ø6							
MDC2-X	ø8	2.0 to 3.5	-	1.0 or less	-	5.5 to 7.5	1.0 or	I-1327
	ø10	1					less	
	ø6						4.0	
MDC2-Y	ø8	1.5 to 3.5	-	1.0 or less	-	4.5 to 6.0	1.0 or less	
	ø10						1033	
Small cylinder/suction pad	■ Applicat	ole switch: Pi	oximity swit	tch (F2□. F3		vitch (F0□)		
	ø6	1		T T		3.5 to 6.0	1.0 or	
MVC	ø10	1.5 to 3.5	-	1.0 or less	-	4.5 to 6.0	less	I-1353
Compact aulindo		la avvitabe Dra	visaitu avvitala	///2□ //2□	Kap Kav		ab /I/0	VE \
Compact cylinder			1	(N∠□, NJ□,	NOPL, KZYL	,	JII (KU∐,	N⊃□)
	ø6	1.5 to 7	3.5 to 7.5			3 to 9.5		
	ø10	1.5 to 7	3.5 to 7.5			3.5 to 9.5	1	
				2 or loss	1 F or loss	4 to 11	2 05 1	1-1365
SMG	ø16	1.5 to 7	4.5 to 8.5	2 or less	1.5 or less		3 or less	1-1303
SMG	ø16 ø20	2.5 to 9	5 to 9	2 or less	1.5 or less	5 to 12.5	3 or less	1-1303
SMG	ø16 ø20 ø25	2.5 to 9 3.5 to 11	5 to 9 5.5 to 9.5	2 or less	1.5 or less	5 to 12.5 6.5 to 14	3 or less	1-1303
	ø16 ø20 ø25 ø32	2.5 to 9 3.5 to 11 3.5 to 11.5	5 to 9 5.5 to 9.5 1.5 to 10.5			5 to 12.5 6.5 to 14 5.5 to 14	3 or less	1-1303
SMG Small compact cylinde	ø16 ø20 ø25 ø32	2.5 to 9 3.5 to 11 3.5 to 11.5	5 to 9 5.5 to 9.5 1.5 to 10.5			5 to 12.5 6.5 to 14 5.5 to 14	3 or less	1-1303
	ø16 ø20 ø25 ø32	2.5 to 9 3.5 to 11 3.5 to 11.5	5 to 9 5.5 to 9.5 1.5 to 10.5			5 to 12.5 6.5 to 14 5.5 to 14	3 or less	1-1303
Small compact cylinde	ø16 ø20 ø25 ø32	2.5 to 9 3.5 to 11 3.5 to 11.5 ble switch: Pi	5 to 9 5.5 to 9.5 1.5 to 10.5	tch (F2⊡, F3		5 to 12.5 6.5 to 14 5.5 to 14 vitch (FO□)		
	ø16 ø20 ø25 ø32 r ● Applicate	2.5 to 9 3.5 to 11 3.5 to 11.5 ble switch: PI 1.5 to 3.0	5 to 9 5.5 to 9.5 1.5 to 10.5			5 to 12.5 6.5 to 14 5.5 to 14 vitch (FO□) 5 to 6	1.0 or less	I-1397

### Operating range, hysteresis

	Bore		Proximi	ty switch		Reed switch	:h	
Model No.	size		ng range		eresis	Operating renge	Llyotoropio	Page
	(mm)	1-color type	2-color type	1-color type	2-color type	Operating range	Hysteresis	
Flat compact cylinder	<ul><li>Applicab</li></ul>	le switch: Pro	eximity switch	n (M2V, M3V	, M3PV, M2V	VV, M3WV), reed s	witch (M0	V, M5V
	ø25	9 to 12	6 to 11			7 to 8.5		
	ø32	9 to 12	6 to 11			7 to 8.5		
FCS-L	ø40	8.5 to 12	6 to 11	1.5 or less	1.0 or less	7 to 8.5	3 or less	
	ø50	8 to 12	6 to 11			6.5 to 8.5		
	ø63	8 to 12	6 to 11			6.5 to 8.5		I-1455
-CH-L	ø25	6 to 12	5 to 11			7 to 12		1-1455
-CH-L -CD-L	ø32	6 to 12	5 to 11			7 to 12		
CD-L	ø40	6 to 12	5 to 11	1.5 or less	1.0 or less	7 to 12	3 or less	
CD-BL	ø50	6 to 12	5 to 11	]		7 to 12		
OD-INL	ø63	6 to 12	5 to 11			7 to 12		
Stopper cylinder	Annlicable s	witch: Provimity s	witch (T2 T3			T3V T1 reed switch		
Stopper cylinaer				101 🗀, 120🗀, 12	T		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 10
	ø20	3 to 8	4.5 to 8	-		6 to 14	-	
STK	ø32	3 to 8	4.5 to 8	1.5 or less	1.5 or less	5 to 12	3 or less	I-1491
	ø40	3 to 9	5 to 8.5	-		6 to 14	-	
	ø50	3 to 9	5.5 to 9.5			6 to 14		
Brake cylinder  JLKP	Applicab ø16	le switch: Pro	oximity switch	1.5 or less	, M3PV, M2V	VV, M3WV), reed so 5 to 9.5	witch (M0	1
J = 1 (1)	1			1				
Brake cylinder	Applicable s	witch: Proximity s	witch (T2, T3,	T3P□, T2J□, T2	W□, T3W□, T2Y[	_, T3Y□, T1□), reed switc	:h (T0□, T5□	, T8□)
	ø20	2.5 to 5.5	3.5 to 7.5			6.5 to 11		
	ø25	2.5 to 5.5	3.5 to 7.5	1 .		7.5 to 12	1	
ULK	ø32	2.5 to 6	3.5 to 8	1.5 or less	1.0 or less	6.5 to 11.5	3 or less	II-661
	ø40	3 to 7	4 to 9	1		7.5 to 13.5		
			1 10 0		I		_	
Brake cylinder	Applicable s	witch: Proximity s	witch (T2□, T3□,	T3P□, T2J□, T2	W□, T3W□, T2Y[	□, T3Y□, T1□), reed switc	:h (T0□, T5□	, T8□)
	ø20	2.5 to 5.5	3.5 to 7.5			6.5 to 11		
101/0	ø25	2.5 to 5.5	3.5 to 7.5	1	4.0	7.5 to 12	0 1	
JSK2	ø32	2.5 to 6	3.5 to 8	1.5 or less	1.0 or less	6.5 to 11.5	3 or less	11-691
	ø40	3 to 7	4 to 9	1		7.5 to 13.5	i	
					J			
Brake cylinder	Applicable s	witch: Proximity s	witch (T2□, T3□,	T3P□, T2J□, T2	W□, T3W□, T2Y	□, T3Y□, T1□), reed switc	:h (T0□, T5□	, T8□)
	ø20	3 to 6	5 to 6.5			8.5 to 12		
JSM2	ø30	3 to 5.5	6 to 7	1.5 or less	1.0 or less	8 to 13	3 or less	II-710
	ø40	2.5 to 5.5	5.5 to 7.5	]		8.5 to 12.5	1	
ie rod cylinder with brake	Applicable of	uitah: Dravimity awi	toh /TO□ TO□ TO	TO IT TOWN	TOWN TOWN TO	V T2VD T1 rood quite	sh /TO□ TE□	TO
ie iou cylliluel willi blake	1			)Γ□, ΙΖJ□, ΙΖVV□,	, 13VV□, 1∠1□, 13 T		л (ТОШ, ТЭШ, Т	10□)
	ø32	2 to 7	6 to 9	_		6 to 11		
								I
	ø40	2 to 7	6.5 to 9			7 to 12		

ø50

ø63

ø80 ø100

**JSG** 

2 to 7

2 to 7.5

2.5 to 8

2.5 to 8

7 to 10

7 to 10

7.5 to 10.5

8 to 11

1.5 or less

1.0 or less

3 or less II-727

7.5 to 12

8.5 to 13

9 to 13.5

9 to 14

Operating range	and hyste	resis of ead	ch cylinder	model wit	th switch			(Unit: mm
	Bore			y switch		Reed switch	h	
Model No.	size	Operatir			eresis	Operating range	Hysteresis	Page
	(mm)	1-color type	2-color type	1-color type	2-color type	Operating range	Trystorosis	
Brake cylinder				P□, T2J□, T2W□,	T3W□, T2Y□, T3	Y□, T2YD, T1□), reed switch	h (T0□, T5□,	T8□)
	ø40	2 to 7	3 to 10			5 to 12.5		
JSC3	ø50	2 to 7.5	3 to 10			5.5 to 13.5	ļ	
(Medium bore	ø63	2.5 to 7.5	3.5 to 10.5	1.5 or less	1.0 or less	5.5 to 14	3 or less	II-757
size)	ø80	3 to 8	4 to 11.5			6.5 to 14.5	ļ	
	ø100	3 to 8.5	4 to 11.5			6.5 to 15.5		
Brake cylinder	Applicable	switch: Stron	g magnetic fie	ld proof reed	switch (H0_)	* The valu	es in ( ) ind	dicate H0Y
	ø40					4 to 7.5(10.5 to 13.5)		
JSC3-L2	ø50					4 to 7.5(11 to 14)		
(Medium bore	ø63	-	•		-	5 to 8(11.5 to 14.5)	3 or less	II-757
size)	ø80					5 to 8(10.5 to 14.5)		
	ø100					5 to 8(10.5 to 14.5)		
Brake cylinder	<ul><li>Applicable sv</li></ul>	vitch: Proximity swit	tch (T2□, T3□, T3	P□, T2J□, T2W□,	T3W□, T2Y□, T3	Y□, T2YD, T1□), reed switch	h (T0□, T5□,	T8 <u></u> )
JSC4	ø125	7.5 to 14	14 to 21			11 to 16		
	ø140	7.5 to 14	18 to 26	1.5 or less	1.0 or less	11 to 16	3 or less	II-757
(Large bore	ø160	7.5 to 14	18 to 26	1.5 01 1655	1.0 01 1655	11 to 16	3 01 1633	11-757
size)	ø200	7.5 to 14	18 to 26			11 to 16		
Position locking compact cylinder	Applicab T2YD, T	le switch: Pr 1□), reed sv	oximity swit	ch (T2⊡, T3 T5⊡, T8⊡)	B□, T3P□, T	T2J□, T2W□, T3W	'□, T2Y□	□, T3Y□,
	ø20	3 to 8	4.5 to 8			6 to 14		
	ø25	3 to 9	4.5 to 8			5 to 14		
11000	g32 3 to 8 4 5 to 8 5 to 12	1	11.004					
USSD	ø40	3 to 9	5 to 8.5	1.5 or less	1.0 or less	6 to 14	3 or less	II-831
	ø50	ø50 3 to 9 5.5 to 9.5 6 to 14						
	ø63	3 to 9	5.5 to 9.5			7 to 15		
Free position locking flat cylinder	● Applicab , M5□)	le switch: Pr	oximity swit	ch (M2⊡, M	3□, M3P□,		eed swit	ch (M0⊡
	ø25	6 to 12	5 to 11			7 to 12		
	ø32	6 to 12	5 to 11			7 to 12		
UFCD	ø40	6 to 12	5 to 11	1.5 or less	1.0 or less	7 to 12	3 or less	II-875
	ø50	6 to 12	5 to 11			7 to 12		
	ø63	6 to 12	5 to 11			7 to 12		
Free position locking Medium bore size cylinder		le switch: Pr			B□, T3P□, T	72J□, T2W□, T3W	, T2Y□	_, T3Y <u></u>
	ø50	2 to 7.5	3 to 10			5.5 to 13.5	1	
USC	ø63	2.5 to 7.5	3.5 to 10.5	1.5 or less	1.0 or less	5.5 to 14	3 or less	II-891
000	ø80	3 to 8	4 to 11.5	1.0 01 1000	1.0 01 1033	6.5 to 14.5	0 01 1000	11 00 1
	ø100	3 to 8.5	4 to 11.5			6.5 to 15.5	1	
Free position locking Medium bore size cylinder	Annlicah	le switch: Re		or strong ma	agnetic field	(H0□)	es in ( ) ind	dicate H0Y
	ø40					4 to 7.5(10.5 to 13.5)		
	ø50	1				4 to 7.5(11 to 14)	1	
USC-L2	ø63	] -	•	_	-	5 to 8(11.5 to 14.5)	3 or less	II-891
	ø80	1				5 to 8(10.5 to 14.5)	1	
	ø100	1				5 to 8(10.5 to 14.5)	1	
	2.00			I	I.	1 3 .5 5(10.0 .0 17.0)	I .	I.
Guided cylinder	Applicab	le switch: Pr	oximity swit	ch (F2□, F3	B□, F2Y□, F	53Y□)		
CTM	ø10	2.5 to 4.5	2.5 to 5.5	4.5	4.5			11 200
STM	ø16	2.5 to 4.5	2.5 to 5.5	1.5 or less	1.5 or less	-	_	II-309
					•			

### Operating range, hysteresis

	Bore		Proximit			Reed switc	h	
Model No.	size	Operatir	ng range	Hyste	eresis	Operating range	Hysteresis	Page
	(mm)	1-color type	2-color type	1-color type	2-color type	Operating range	i iyatereala	
Guided cylinder	Applicable sv	vitch: Proximity swi	tch (T2□, T3□, T3	P□, T2J□, T2W□,	T3W□, T2Y□, T3	$Y \square$ , T2YD, T1 $\square$ ), reed switch	:h (T0□, T5□,	T8 <u></u> )
	ø12	1.5 to 4.5	4 to 6			6 to 10		
	ø16	1.5 to 4.5	4 to 6			4 to 9		
	ø20	3 to 8	5 to 8.5			6 to 14	1	
	ø25	3 to 9	5 to 8.5			5 to 14	1	
STG	ø32	3 to 9	5 to 9	1.5 or less	1.5 or less	5 to 12	3 or less	II-329
	ø40	3 to 9	6 to 10			6 to 14	1	
	ø50	3 to 9	6 to 10			6 to 14	]	
	ø63	3 to 9	6 to 10			7 to 15		
	ø80	4 to 10	7 to 10			7 to 15		
Guided cylinder	<ul><li>Applicable sv</li></ul>	vitch: Proximity swi	tch (T2□, T3□, T3	P□, T2J□, T2W□,	T3W□, T2Y□, T3	Y□, T2YD, T1□), reed switc	:h (T0□, T5□,	T8□)
	ø8	1.5 to 3.5	4 to 6			5 to 9		
	ø12	1.5 to 4.5	4 to 6			6 to 10		
	ø16	1.5 to 4.5	4 to 6			4 to 9	3 or less	
	ø20	3 to 8	5 to 8.5			6 to 14		
	ø25	3 to 9	5 to 8.5	1.5 or less		5 to 14		
STS/L	ø32	3 to 8	5 to 9		1.5 or less	5 to 12		II-437
	ø40	3 to 9	6 to 10			6 to 14		
	ø50	3 to 9	6 to 10			6 to 14		
	ø63	3 to 9	6 to 10			7 to 15	_	
	ø80	4 to 10	7 to 10			7 to 15		
	ø100	2 to 9	7 to 10			7 to 15		
Linear slide cylinder	Applicab	le switch: Pr	oximity swit	ch (F2⊡, F3	B□, F2Y□, F	[3Y□)		
LCW	ø12	3.5 to 6.5	4.5 to 6.5	1.0 or less	1.0 or less	-	-	II-5
Linear slide cylinder	Applicab	le switch: Pr	oximity swit	ch (T2□, T3	B□, T2W□, T	Γ3W□), reed swite	ch (T0□,	T5□)
LCW	ø16	3 to 5	4 to 5.5	1.0 or less	1.0 or less	6.5 to 9.5	3.0 or	II-5
	ø20	4.5 to 6.5	5.5 to 6.5	110 01 1000		8 to 12	less	0
_inear slide cylinder	Applicab	le switch: Pr	oximity swit	ch (F2⊡, F3	B□, F2Y□, F	[3Y□)		
	ø6		2.5 to 5.5					
LCR	ø8	2 to 4	3.5 to 6	1.0 or less	1.0 or less	-	-	II-55
	ø12		3 to 4.5					
Linear slide cylinder	Applicab	le switch: Pr	oximity swit	ch (T2□, T3	B□, T2W□, 7	Γ3W□), reed swite	ch (T0□,	T5□)
	ø16	2 to 4	3 to 4.5			5 to 9		
LCR	ø20	2 to 5.5	4 to 5.5	1.0 or less	1.0 or less	6.5 to 11	1.0 or	II-55
	ø25	2.5 to 6	3.5 to 6			8 to 12	less	
Linear slide cylinder	Applicab	le switch: Pr	•	ch (F2□, F3	B□, F2Y□, F	[3Y□)		
	ø6		2.5 to 5.5					
LCG	ø8	2 to 4	3.5 to 6	1.0 or less	1.0 or less	-	-	II-137
	ø12		3 to 4.5					
_inear slide cylinder	Applicab	le switch: Pr	oximity swit	ch (T2□, T3	B□, T2W□, 7	Γ3W□), reed swite	ch (T0□,	T5□)
	ø16	2 to 4	3 to 4.5			5 to 9	4.0	
LCG	ø20	2 to 5.5	4 to 5.5	1.0 or less	1.0 or less	6.5 to 11	1.0 or	II-137
	ø25	2.5 to 6	3.5 to 6			8 to 12	less	
Linear slide cylinder	<ul><li>Applicab</li></ul>	le switch: Pr	oximity swit	ch (T2□, T3	B□, T2W□, T	Γ3W□), reed switc	ch (T0□,	T5□)
	ø25	0.5 to 6	1.0 to 5.5			2 to 10.5	2 5 0 5	
LCX	023	0.5 10 0	1.0 10 3.3	2 or less	2 or less	2 10 10.0	3.5 or	II-201

	Bore	resis of ead			Proximity switch			
Model No.	size	Operatir	ng range		eresis	Reed switc		Page
	(mm)		2-color type			Operating range	Hysteresis	
Linear slide cylinder	<ul><li>Applicab</li></ul>					(3Y□)		
•	ø4.5							
LCM	ø6	1 to 3	2 to 4	1.0 or less	1.0 or less	-	-	II-261
	ø8							
Twin rad avlindar	■ Applicabl	la avvitaby Dra	vimity awitah	/V2\\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	V2D□ V2V□	N2V□\ rood owit	ob (I/O	VE (
Twin rod cylinder		,	-	(NZ_, N3_,	N3PL, NZYL	,	cn (Ku∟,	N⊃∐)
	ø6	1 to 6	4 to 7.5			4 to 9(STR2-M)		
	ø10	1 to 5.5	4 to 7.5		1.5 or less	4 to 9(STR2-M)	-	
STR2	ø16	1.5 to 7.5	4.5 to 9	2.0 or less		5 to 12.5	3.0 or less	II-567
	ø20	3 to 9	5.5 to 10			6.5 to 14.5	1699	
	ø25	3.5 to 10.5	6.5 to 10.5			8 to 14.5	-	
	ø32	-	-			<del>-</del>		
Jnit cylinder	Applicab	le switch: Pi	oximity swit	ch (T2□, T3	B□), reed sw	ritch (T0□, T5□)		
	ø10							
UCA2-*L	ø16	15 to 1	_	1.5 or less		4.5 to 8	3.0 or	II-625
UCAZ- L	ø25	1.5 to 4	_	1.5 OF IESS	-	4.5 10 8	less	II-625
	ø32							
li energy absorption cylinder	Applicable sv	vitch: Proximity swi	tch (T2□, T3□, T3	P□, T2J□, T2W□,	T3W□, T2Y□, T3	Y□, T2YD, T1□), reed switc	th (T0□, T5□,	T8 <u></u> )
	ø20	3 to 8	4.5 to 9			6 to 14		
	ø25	3 to 9	5 to 9			5 to 14	3 or less	I-941
HCM	ø32	3 to 8	5 to 9	4.5	1.0 or less	5 to 12		
	ø40	3 to 9	5.5 to 9.5	1.5 or less	1.0 or less	6 to 14	3 or less	
	ø50	3 to 9	6 to 10			6 to 14	1	
	ø63	3 to 9	6 to 10.5			7 to 15		
High speed cylinder	Applicab	le switch: Pi		ch (R1, R2,	R3, R2Y, R3	3Y), reed switch (	R0, R4, F	R5, R6
	ø20	6 to 14	11 to 18			7 to 14		
HCA	ø25	6 to 14	11 to 18	1.5 or less	1.0 or less	8 to 13	3.0 or	I-959
	ø32	6 to 14	11 to 18	110 01 1000		9 to 14	less	
	ø50	6 to 14	11 to 18			9 to 14		
Rodless cylinder	<ul><li>Applicabl</li></ul>	e switch: Prox	kimity switch (	(M2□, M3□,	M3P□, M2W\	/, M3WV), reed swit	tch (M0□,	M5□)
	ø12	4 to 13	4 to 12	1.5 or less	1.0 or less	3 to 11		
	ø16	4 to 13	4 to 12	1.5 or less	1.0 or less	3 to 11	3.0 or less	
	ø20	4 to 13	4 to 12	1.5 or less	1.0 or less	3 to 11	1688	
	ø25	9.5 to 15.5	9 to 14	2.0 or less	1.5 or less	8.5 to 13.5		
CDI 2	ø32	7.5 to 15	8 to 14	2.0 or less	1.5 or less	7 to 13.5	3.5 or less	1 1551
SRL3	ø40	11.5 to 17.5	10 to 16.5	2.0 or less	1.5 or less	10 to 16	1622	I-1551
	ø50	11 to 24	17 to 27	2.5 or less	1.5 or less	17 to 27		1
	ø63	11 to 24	17 to 27	2.5 or less	1.5 or less	17 to 27	3.0 or	
	ø80	26.5 to 45.5	16.5 to 40	5.0 or less	3.0 or less	20.5 to 41	less	
	ø100	25.5 to 40.5	21.5 to 36	3.0 or less	2.5 or less	24 to 37		
Rodless cylinder	Applicab	le switch: Pi	roximity swit	ch (T2W□,	T3W□, T2Y	D)		
	ø12	-	2 to 7	_	1.0 or less			
	ø16	-	2 to 7	-	1.0 01 1635			
	ø20	-	3 to 8					
	ø25	-	3 to 10					
SRL3	ø32	-	3 to 10	_	1.5 or less	_	_	I-1551
DIVEO	ø40	-	4 to 11	_	1.5 01 1655	-	_	I-1551
	ø50	-	9 to 16					
	ø63	-	9 to 16					
	ø80	-	10 to 24	_	2.0 or less			
	ø100	-	10 to 24		2.0 01 1033			

# Cylinder switch Operating range, hysteresis

	Bore		Proximit	switch		Reed switch	:h	
Model No.	size		ng range		eresis	Operating reases	Hyotoroo!-	Page
	(mm)	1-color type	2-color type	1-color type	2-color type	Operating range	Hysteresis	
High precision guided or odless cylinder	l ● Applicab , M5□)	ole switch: Pr	oximity swit	ch (M2□, M	l3□, M3P□,	M2WV, M3WV), r	eed swit	ch (M0
	ø12	4 to 13	4 to 12	1 E or loss	1.0 or loss	3 to 11	0.0	
CDC2	ø16	4 to 13	4 to 12	1.5 or less	1.0 or less	3 to 11	3.0 or less	1 4 6 0 7
SRG3	ø20	9.5 to 15.5	9 to 14	0.0 1	4.5	3 to 11	1622	I-1627
	ø25	9.5 to 15.5	9 to 14	2.0 or less	1.5 or less	8.5 to 13.5	3.5 or less	1
High precision guided rodless cylinder	Applicab	ole switch: Pr	oximity swit	ch (T2W□,	T3W□, T2Y	D)		
	ø12	-	2 to 7	_	1.0 or less			
SRG3	ø16	-	2 to 7	_	1.0 01 1655			I-1627
SKUS	ø20	-	3 to 8		1 5 05 1000	_	-	1-1027
	ø25	-	3 to 10	_	1.5 or less			
High precision guided rodless cylinder	ø25 ø32		ed switch (T 6 to 9 6.5 to 9			5.5 to 11 5.5 to 10	2.0 or	I-1655
J. 11110	ø40	-	7.5 to 10.5		0. 1000	5.5 to 9	less	.555
	ø63	-	8 to 11			5.5 to 10		
Rodless cylinder with brake	Ø12 Ø16 Ø20	e switch: Prox 4 to 13 4 to 13 4 to 13	4 to 12 4 to 12 4 to 12 4 to 12	(M2□, M3□, 1.5 or less	M3P□, M2W¹	V, M3WV), reed swi 3 to 11 3 to 11 3 to 11	3.0 or less	M5□)
ND-T0	ø25	9.5 to 15.5	9 to 14			8.5 to 13.5		1
SRT3	ø32	7.5 to 15	8 to 14			7 to 13.5	_	I-1685
	ø40	11.5 to 17.5	10 to 16.5	2.0 or less	1.5 or less	10 to 16	3.5 or	
	ø50	16.5 to 24	14 to 21		1.0 01 1000	14.5 to 21.5	less	
	ø63	16 to 24	14 to 21			14 to 21.5	1	
Rodless cylinde				ch (T2W□,	T3W□, T2Y			1
	ø12	-	2 to 7		1.0 or less			
	ø16	-	2 to 7	_	1.0 01 1655			
	ø20	-	3 to 8					
CDT2	ø25	-	3 to 10					1 4005
SRT3	ø32	-	3 to 10	]	4.51	- 	_	I-1685
	ø40	-	4 to 11	] -	1.5 or less			
	ø50	-	9 to 16					
	ø63	-	9 to 16					
Magnet rodless	<ul><li>Applicab</li></ul>			h (T2□, T3□	], T3P□, T2V	V□, T3W□, T2Y□	, T3Y□, T	1□)
cylinder			5.5 to 6.5					
cylinder	ø6	2 to 5					1	
cylinder	ø6 ø10	2 to 5 2.5 to 5.5	6 to 7.5					
				1.0 or loss	1 0 or loss	_	_	1-1712
	ø10	2.5 to 5.5	6 to 7.5	1.0 or less	1.0 or less	-	-	I-1713
	ø10 ø16	2.5 to 5.5 2 to 5	6 to 7.5 5.5 to 7	1.0 or less	1.0 or less	-	-	I-1713
	ø10 ø16 ø20	2.5 to 5.5 2 to 5 2 to 5	6 to 7.5 5.5 to 7 6 to 5.5	1.0 or less	1.0 or less	-	-	I-1713
MRL2  Magnet rodless cylinder	ø10 ø16 ø20 ø25 ø32	2.5 to 5.5 2 to 5 2 to 5 2 to 5 2 to 5 2 to 4.5 le switch: Pro	6 to 7.5 5.5 to 7 6 to 5.5 6 to 5.5 5.5 to 6.5	ch (T2□, T3□		- W□, T3W□,T2Y□	, T3Y□, 1	
MRL2  Magnet rodless cylinder	ø10 ø16 ø20 ø25 ø32	2.5 to 5.5 2 to 5 2 to 5 2 to 5 2 to 5 2 to 4.5 le switch: Pro	6 to 7.5 5.5 to 7 6 to 5.5 6 to 5.5 5.5 to 6.5	ch (T2□, T3□		- W□, T3W□,T2Y□ 6.5 to 7.5	, T3Y□, 1	
MRL2  Magnet rodless cylinder with high precision guide	ø10 ø16 ø20 ø25 ø32 ■ Applicab	2.5 to 5.5 2 to 5 2 to 5 2 to 5 2 to 4.5 lle switch: Pro-	6 to 7.5 5.5 to 7 6 to 5.5 6 to 5.5 5.5 to 6.5 oximity switce	ch (T2□, T3□				Γ1□),

Operating range	and hyster	resis of ead	ch cylinder	model wit	th switch			(Unit: mm)
	Bore		Proximit	y switch		Reed switch	h	
Model No.	size (mm)		ng range 2-color type		eresis 2-color type	Operating range	Hysteresis	Page
Clamp cylinder	Applicable sv	vitch: Proximity swi	tch (T2□, T3□, T3	P□, T2J□, T2W□,	T3W□, T2Y□, T3	Y□, T2YD, T1□), reed switch	h (T0□, T5□,	T8_)
	ø40	2 to 6.5	5.7 to 6.5			6.7 to 10.8		
CAC4	ø50	2.5 to 6.0	5.9 to 6.8	1.5 or less	1.0 or less	7.8 to 11.3	3 or less	11 000
CAC4	ø63	2.5 to 6	6.1 to 6.8	1.5 01 1688	1.0 01 1688	8.2 to 11.4	3 01 1688	111-909
	ø80	3 to 7	7.7 to 8.5			9 to 10.9		
Clamp cylinder	Applicab	le switch: Re	eed switch f	or strong ma	agnetic field	(H0□)		
	ø40					6.7 to 10.8		
040410	ø50	1				7.8 to 11.3		
CAC4-L2	ø63	1	-	-	-	8.2 to 11.4	3 or less	11-989
	ø80					6.6 to 7.5		
Clamp cylinder			,	P□, 12J□, 12W□,	, 13W□, 12Y□, 13 ⊤	Y□, T2YD, T1□), reed switc	h (10∐, 15∐, ⊤	18_)
UCAC2	ø50 ø63	2.5 to 6.0 2.5 to 6.5	5.9 to 6.8 6.1 to 6.8	1.5 or less	1.0 or less	7.8 to 11.3 8.2 to 11.4	3 or less	II-1013
<u> </u>								
Clamp cylinder	Applicab	le switch: Re	eed switch f	or strong ma	agnetic field	(H0L)		
UCAC2-L2	ø50		_	_	_	7.8 to 11.3	3 or less	II-1013
UCACZ-LZ	ø63		- -		_	8.2 to 11.4	3 01 1633	11-1013
Paktos Paktolanos o Padas	A selfection	TOTAL POST TOTAL	- '(- - /TO□ TO		TOVE TOVE 3	50VD T450	/TO TE	T0[]\
Lightweight clamp cylinder	Applicable s	switch: Proximity	switch (12□, 13	□, 13P□, 12J□ 	, 12Y□, 13Y□, 1	2YD, T1\(\text{\tin}\text{\tinit}\\ \text{\texi}\tint{\tiint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text	(10, 15,	18_)
CAC	ø32	2.5 to 6	3.5 to 8	1.5 or less	1.0 or less	6.5 to 11.5	3 or less	II-1027
<u> </u>	ø40	3 to 7	4 to 9		1.0 01 1000	7.5 to 13.5	0 01 1000	
Position locking, lightweight clamp cylinder	Applicable s	switch: Proximity	switch (T2□, T3	B□, T3P□, T2J□	], T2Y□, T3Y□, <sup>-</sup>	Γ2YD, T1□), reed switch	(T0□, T5□,	, T8□)
LICAC	ø32	2.5 to 6	3.5 to 8	4.5	4.0	6.5 to 11.5	0 1	11 4007
UCAC	ø40	3 to 7	4 to 9	1.5 or less	1.0 or less	7.5 to 13.5	3 or less	11-1027
Rotary clamp cylinder	Applicable :	switch: Proximity	/ switch (T2□,, T	T3□,, T3P□,, T2J	I□,, T2Y□,, T3Y□	$\square$ ,, T2YD, T1 $\square$ ,), reed swi	tch (T0□, T	5□,, T8□,)
	ø12	1.5 to 5.5	3 to 6			5 to 8		
	ø16	1.5 to 4.5	3 to 7			4 to 9	i	
	ø20	3 to 8	4.5 to 8			6 to 14	1	
2000	ø25	3 to 9	4.5 to 8			5 to 14	1 .	
RCS2	ø32	3 to 8	4.5 to 8	1.5 or less	1.0 or less	5 to 12	3 or less	
	ø40	3 to 9	5 to 8.5			6 to 14	Ī	
	ø50	3 to 9	5.5 to 9.5			6 to 14	1	
	ø63	3 to 9	5.5 to 9.5			7 to 15	1	
Rotary clamp cylinder	Applicable :	switch: Proximity	/ switch (T2□, T	'3□, T3P□, T2V	V□, T3W□, T2Y	□, T3Y□, T2YD), reed s	switch (T0	l, T5□)
	ø16	2 to 5	3 to 7			4 to 9		
	ø20	3 to 8	4.5 to 8			6 to 14	1	
	ø25	3 to 9	4.5 to 8			5 to 14		
RCC2	ø32	3 to 8	4.5 to 8	1.5 or less	1.0 or less	5 to 12	3 or less	II-1047
	ø40	3 to 9	5 to 8.5			6 to 14	1	
	ø50	3 to 9	5.5 to 9.5			6 to 14	1	
	ø63	3 to 9	5.5 to 9.5			7 to 15	1	
Rotary clamp cylinder	Applicab	le switch: Pr	oximity swit	ch (T2□, T3	3□, T2W□,	Γ3W□), reed switc	ch (T0□,	T5□)
RCS	ø16	2 to 5	3 to 7	1.5 or less	1.0 or less	4 to 9	3 or less	II-1069
	1	1				1.5.5	1	

# Cylinder switch Operating range, hysteresis

Operating range	and hyste	resis of eac			h switch			1
	Bore	0 "		y switch		Reed swite	ch T	
Model No.	size (mm)	Operatir		1-color type	eresis	Operating range	Hysteresis	Page
High power cylinder						⊔ 3Y), reed switch (		DE D6)
nigii powei cyllilaei	1			CII (K I, KZ,	N3, N21, N	, ,	10, N4, I	(3, (0)
	ø40	6.5 to				9.5 to 12.5		
CLIC	ø50	8 to		4.5.		10.5 to 14.5	3.0 or	11.4005
SHC	ø63	7.5 to		1.5 0	r less	10.5 to 14.5	less	II-1095
	ø80	8 to				11.5 to 15.5		
	ø100	8 to				12 to 16		
High power cylinder	<ul><li>Applicab</li></ul>	le switch: Re	eed switch (	H0)				
	ø40					4 to 7		
	ø50	1				5 to 7.5		
SHC-L2	ø63	1 .	_		_	5 to 8	3.0 or	II-1095
0.10 LL	ø80	1				5 to 8	less	
	ø100	1				5 to 8	7	
Mechanical power cylinder	Applicable s	· · · · · · · · · · · · · · · · · · ·	`	T3P□, T2J□, T2\	N□, T3W□, T2Y[	☐, T3Y☐, T1☐), reed switc	ch (T0□, T5□	, T8□)
MCP-S	2t	4 to 10	6 to 10	1.5 or less	1.0 or less	7 to 15	3 or less	
WICE-3	5t	4 to 10	8 to 10	1.5 01 1633	1.0 01 1633	9 to 15	3 01 1633	11 1022
MCD W (rowld food nort)	2t	3.5 to 6.0	4.6 to 9.2	4.5	4.0	7.6 to 12.8	2 1	II-1033
MCP-W (rapid feed part)	5t	4.0 to 8	5.5 to 11.9	1.5 or less	1.0 or less	8.9 to 14.1	3 or less	
Guideless cylinder	Applicab	lo switch: Dr	ovimity swit	ch (D1 D2	D2 D2V D	3Y), reed switch (	D0 D4 I	DE D6)
Guideless Cyllilder				CII (N I, NZ,	N3, N21, N	, <u>'</u>	NU, N4, I	(3, (0)
	ø40	7 tc			11.5 to 16.5			
	ø50		17		13 to 1		3.0 or	
GLC	ø63	10 to		1.5 o	r less	15 to 20	less	II-1151
	ø80	8 tc	19			15 to 20		
	ø100	11 to	20.5			13.5 to 19		
Guideless cylinder	<ul><li>Applicab</li></ul>	le switch: Re	eed switch (	H0)				
	ø40		,	,		4 to 9		
	ø50	1				4 to 9		
GLC-L2	ø63	1				4 to 10	3.0 or	II-1151
GLC-LZ		1	-	·	-		less	11-1131
	ø80 ø100	-				5 to 11 5 to 11		
	0100					3 10 11		
Rotary actuator	Applicable	switch: Proximit	y switch (T2⊡, <sup>⁻</sup>	Γ3□, T2W□, T3	W□, T2Y□, T3`	$Y \square$ , T1 $\square$ ), reed switch	(T0□, T5□,	T8_)
-	8	15° to 60°	20° to 70°			70° to 90°		
RRC	32	10° to 30°	10° to 30°	-	-	30° to 40°	-	II-1241
	63	10° to 30°	10° to 30°			30° to 40°		
Table rotary actuator	Applicab	le switch: Pr	oximity swit	ch (T2□, T3	B□, T2W□, ¯	T3W□, T2Y□, T3	Y□, T1□	)
	5	10° to 35°	30° to 40°					
	10	5° to 30°	20° to 30°					
CDC	20	10° to 35°	25° to 35°					11.4055
GRC	30	5° to 25°	15° to 25°	_	-	-	-	II-1255
	50	5° to 25°	15° to 25°					
	80	5° to 25°	15° to 25°					
Compact rotary actuator	Applicab	le switch: Pr		ch (SR-□)				I
	3	15°±7°	-					
RV3*	10	15°±7°	-	3° or less	_	_	_	II-1293
	20	15°±7°	-					
	30	15°±7°	-					
Compact rotary actuator			oximity swit	ch (FR-□)				
	3	23°±7°	-					
RV3*	10	23°±7°	-	2° or less	_	_	_	II-1293
	20	23°±7°	-	_ = =				
	30	23°±7°	-					
_arge rotary actuator	Applicab	IA switch: Dr	ovimity ewit	ch (M2)/ M	3// M3D//)	reed switch (M0V	M5\/\	
Larye rolary actuator			DAILING SWIL		J v, IVIJI- v ),		, IVIO V )	
	50	Approx. 40°	-			Approx. 25°	$\exists$	
RV3*	150	Approx. 25°	-		-	Approx. 15°	_	II-1293
-	300	Approx. 25°	-			Approx. 15°	_	
	800	Approx. 25°	-			Approx. 15°		

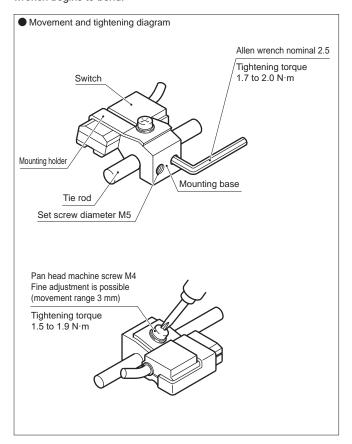
### A CAUTION Relocation of switch

### Tie rod mounting

Loosening the two set screws for fixing the mounting base by 1/2 to 3/4 turns allows you to move the switch axially without fallout.

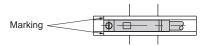
After adjustment, lightly press the holder so that the switch contacts the tube, and tighten the set screw.

Tightening torque is 1.7 to 2.0 N·m. It is tightened enough if the Allen wrench begins to bend.



### Band mounting

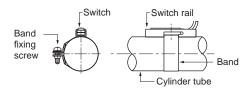
- (1) When moving the switch position to the stroke direction
- The 1-color LED switch can be fine-tuned by ±3 mm from the default. If the adjusting range exceeds ±3 mm, or when finetuning the 2-color LED switch, move the band position.
- The switch bracket rail has a marking 4 mm from the rail end. Use as a guide to the mounting position when replacing the switch. Switch rail markings are set to the default switch max. sensitivity position. The max. sensitivity position will change when the switch is changed or when the band is moved. Adjust the position accordingly in this case.



- (2) When moving the switch position to the circumferential direction
- Loosen the band fixing screw, shift the switch rail in the circumferential direction, then tighten at the specified position. Tightening torque is 0.8 to 1.0 N·m.

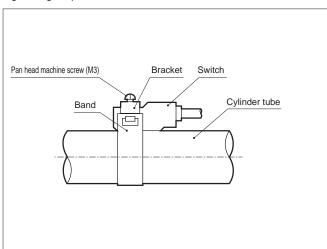
#### (3) Shifting the band position

Loosen the band fixing screw, shift the switch rail and band along the cylinder tube, and tighten at the specified position. Tightening torque is 0.8 to 1.0 N·m.



#### Band mounting

Loosen the fixing screw (pan head machine screw), move the body and band along the cylinder tube, and tighten the screw at the specified position. For fine adjustment, fix the band position and move only the switch body. Tightening torque is 0.5 to 0.7N·m. Tightening torque for HCA ø80 and ø100 is 1.0 to 1.5 N·m.



#### Switch groove mounting

Loosen the fixing screw (set screw), move the switch body along the switch groove, and tighten the screw at the specified position. When using T2, T2W, T3, T3W, T0, T5, K2, K3, K0 or K5, use a flathead screwdriver (clockwork screwdriver, precision screwdriver, etc.) with a 5 to 6 mm grip diameter, a 2.4 mm or smaller tip and thickness 0.3 mm or less to tighten the screws with a tightening torque of 0.1 to 0.2 N·m.

When using T\*C, T2J, T2Y, T3Y, K2Y, K3Y, T2YD, T1, T8, T2YL, T3YL or ET0, tighten with a tightening torque of 0.5 to 0.7 N·m. When using F2\*, F3\*, F2Y\* or F3Y\*, tighten with a tightening torque of 0.03 to 0.08 N·m.

### T2YD Tie rod mounting

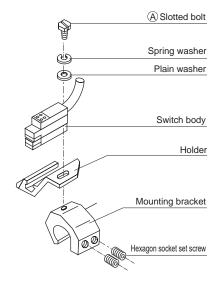
#### (1) Fine adjustment

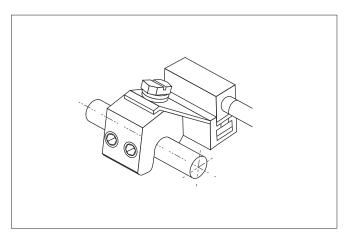
Loosen the slotted hex socket bolt (A), move only the switch body, and fix at the required position. Tightening torque is 0.5 to 0.7  $N\!\cdot\! m.$ 

#### (2) Rough adjustment

Completely loosen the slotted bolt (A) and set screws, and move the entire mounting bracket to the required position. Tighten the slotted bolt (A). Tightening torque is 0.5 to 0.7 N·m.

Then tighten the set screw. Tightening torque is 1.7 to 2.0 N·m.





### Notes for contact protection circuits (SKAC and SKDC)

If a reed switch is used and load falls under any of the following conditions, the contact may be kept on and the service life may become shorter. To prevent that, connect a contact protection circuit within 2 m from the switch.

- When the work load is an inductive load (relay, valve, etc., (coil-drive) load)) or capacitance load (programmable controller, etc., (load including capacitor))
- When the lead wire lengths are as follows

12 VDC : 100 m or more 24 VDC : 50 m or more 100 VAC : 20 m or more 200 VAC : 10 m or more

When overvoltage or overcurrent may occur due to other causes

For details on contact protection circuits, refer to Ending Page 27.

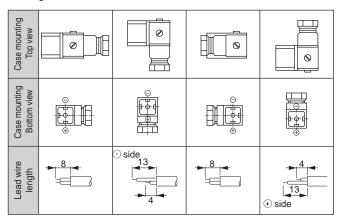
### How to install the product to R\*B terminal box

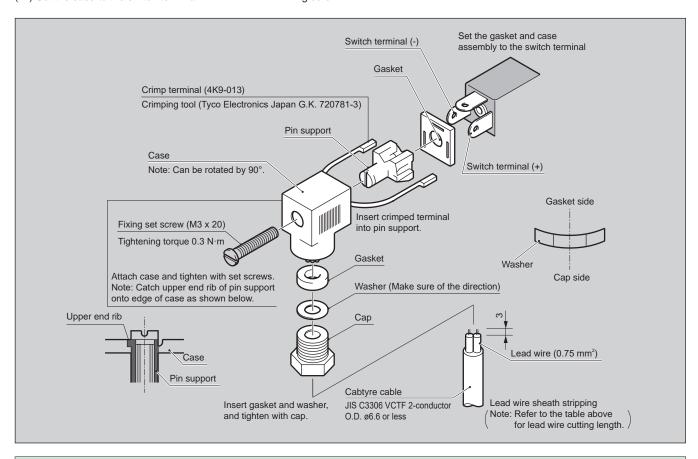
See the figure below and follow the following procedure to connect with the  $R^*B$  terminal box.

- (1) Remove the fixing screw completely and pull out the terminal box from the switch.
- (2) Push out the pin support from the top of the case to separate the case and pin support.
- (3) Remove the cap and take out the washer and gasket.
- (4) Determine the direction to draw the lead wire from the terminal box.
- (5) Refer to the top view of the case mounting orientation, and cut the lead wire based on the lead-out direction. Then strip the seal/sheath.
- (6) Crimp the included terminal.
- (7) Pass the lead wire through in the sequence of cap, washer, gasket, and case with attention to the orientation. Insert the lead wire into the case and pull it out with needle-nose pliers.
- (8) Insert the terminal into the pin support and at the same time, push them into the case making sure of their direction. Push them until the upper end rib of the pin support comes out of the top of the case.
- (9) Insert the fixing screw into the case and pin support.
- (10) Insert the gasket and washer into the case and fix them by tightening the cap.
- (11) Set the case to the switch terminal and fix it with the fixing screw.

#### Lead cutting length

The lead cutting length differs with the case mounting orientation. Refer to the following table.





#### How to install the product to E0 terminal box

