

Instructions

- Do not use the proximity switch at voltages and currents that exceed its "Specifications" (see page J-71). If the voltage or current is too low, the operation indication light may not light up. Use within the range of "Specifications".
- Electrical Conduit Connection
 - When wiring to the proximity switch, be sure to turn off the power to the electrical circuit on the connection side before proceeding.
 - When wiring switches for DC, pay close attention to the polarity (color of lead wires and plus/minus terminal positions of connectors) and connect them correctly. If the wiring is reversed the operation indication light will not light.
 - When using a cabtyre cord for wiring to the connector type, use a JIS C 3306 VCTF 0.3 to 0.75 mm 2-core, outer diameter 4 to 6 mm or less. For lead wires type, use cabtyre cords of 0.3 to 0.75 mm or less.
- Cylinders with proximity switches use magnetic and electronic components, and should not be used at ambient temperatures above 70°C due to their temperature characteristics. Use hydraulic fluid within both viscosities of 20 to 400 mm/s and temperatures of -10 to +60°C.
- The proximity switch may malfunction in locations where there is a strong magnetic field or high current in the surrounding area (e.g., spot welders). In such cases Use an iron plate or other magnetic material to block the magnetism.
- When using multiple cylinders with proximity switches in close proximity, provide a distance of at least 30 mm between the switch and the other cylinders to avoid the influence of the magnet built into the piston.
- Avoid use the proximity switch in locations where the cylinder body is buried in iron or magnetic chips, as this may cause the proximity switch to malfunction.
- Since a magnet is used in the cylinder piston section, it may be affected by iron powder in the hydraulic system. We recommend installing a microseparator (Model No. MGB-260, etc.) in the hydraulic tank to remove such iron powder.

For other instructions, refer to "instructions" pages J-4 to J-7.

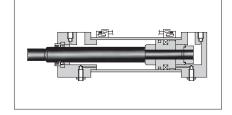
"CJT" Series Hydraulic Cylinders with Proximity Switch

- The detection position of the cylinder can be set arbitrarily and easily by adjusting the position of the slide type proximity switch on the cylinder body.
- The position sensing device attached to the machine body is no longer necessary, which reduces the man-hours required for design and assembly and also makes the equipment more compact.
- Proximity switches are available in lead wire and plug-in connector types, which can be selected according to the application. The lead wire type is available in 1.5 m (standard) and 5 m lead lengths.

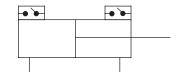


Descr	iptions		CJT35L	CJT70L	CJT140L	CJT210CL		
Cylinder Bore		mm	32, 40, 50 63, 80, 100	32, 40, 50 63, 80, 100 125	32, 40, 50 63, 80, 100 125	40, 50, 63 80		
Nominal Pressure		MPa	3.5	7	14	21		
Maximum	Cap Side			9	18	26.5		
Allowable	Rod Rod	Rod A B	Rod $\frac{A}{B}$	4.5	15	18	26.5	
Pressure				Size B	Size B	Size B	4.5	13.5
MPa	Side Size	С		11	14	_		
Operating Maximu	m Speed n	nm/s	300 or less					
Ambient Temperatu	ure Range	−10 - +70°C						
Applicable Standar	rd		Compliant with former JIS B8354					





Graphic Symbol



★ Refer to page J-7 for definitions of pressure terms.

Note. The basic specifications of cylinders with proximity switch are the same as those of 3.5, 7,14 MPa series standard cylinder and 21 MPa series compact type cylinder. Please refer to page J-8 (C J T35), J-19 (CJT70/140) and J-41 (CJT210C).

Refer to the table below for the minimum stroke to which the proximity switch can be attached.

Minimum stroke to which the proximity switch can be attached

	Cylinder Bore	Except TC		TC Trunnion Position:Standard		
Series Number	mm -		Number O	f Switches		
	111111	1	2 *1.2	1	2 *2	
	32					
	40	2	5			
CJT35L	50			55	105	
	63					
	80	2	0			
	100			60	110	
	32			50	110	
	40				115	
CJT70L	50				113	
	63	20	30	60	125	
CJT140L	80			00	130	
	100			65	135	
	125			70	150	
<u> </u>	40	2	0	50	130	
CITALOCI	50	15	20	50	130	
CJT210CL	63	2	0	60	150	
	80		U	70	170	

- ★1. When two proximity switches other than the TC type are mounted, the switch mounting surface is different.
- ★2. For two or more switches, please consult us.



Model Number Designation

F-	CJT140L	-LA	80	В	100	В	-A	В	D	-Е	-20	
Packing Material	Series Number	Mounting Type	Cylinder Bore mm	Rod Size	Cylinder Stroke mm		★2 Port Position	★2 Cushion Adj. Valve Position	Air Vent Valve	Options ^{★1}	Design Number	
	CJT35L: 3.5 MPa Series Standard Cylinder with Proximity Switch	SD,LA LB,FA FB,CA CB,TA TC		S: Rod S (Special)		B: *4 With Cushion on Both ends R: *4 With Cushion on the Rod side				Two positions except for cushion and port	F: With Dust Cover (Material: Nylon Tarpaulin, Heat resistant up to 80°C) G: With Dust Cover (Material: Chloroprene, Heat resistant up to 130°C) H: With Dust Cover (Material: Conex, Heat resistant up to 200°C) K: With Lock Nut L: With T-End (Rod End Eye) M: With Y-End (Rod End Clevis) X** Y** Code of proximity switch Code 10°C)	30
None: Nitrile Rubber (Standard)	CJT70L: 7 MPa Series Standard Cylinder with Proximity Switch	SD,LA LB,FA FB,FC FD,FE FF,FY CA,CB TA,TC	32, 40 50, 63 80,100 125	A: Rod A (Super Strong)			Right C:	A: Upper D L C: St C: D: B Left R	D: Left (Standard) A: Upper	Please consult us separately for options for Rod A. E: With Long Rod End Thread F: With Dust Cover (Material: Nylon Tarpaulin, Heat resistant up to 80°C) G: With Dust Cover (Material: Chloroprene Heat resistant up to 130°C) H: With Dust Cover (Material: Silicon Glas		
Fluoro Rubber 6: *5 Hydrogenated Nitrile Rubber	CJT140L: 14 MPa Series Standard Cylinder with Proximity Switch	SD,LA LB,FC FD,FE FF,FY CA,CB TA,TC	32, 40 50, 63 80,100 125	Rod B	Cylinder Stroke	H: With Cushion on the Cap side N:	D: Left		B: Right C: Under	Heat resistant up to 250°C) K: K:With Lock Nut (E: Used in combination with long rod end thread) L: With T-End (Rod End Eye) M: With Y-End (Rod End Clevis) N: Double Rod X** Y** Code and number of proximity switch	20	
	CJT210CL: 21 MPa Series Compact Type Cylinder with Proximity Switch	SD,LA FA,FB CA,TC	40, 50 63, 80	A: Rod A B: Rod B		Without Cushion		(Standard)	Two positions except for cushion	E: With Long Rod End Thread F: With Dust Cover (Material: Nylon Tarpaulin, Heat resistant up to 80°C) G: With Dust Cover (Material: Chloroprene, Heat resistant up to 130°C) H: With Dust Cover (Material: Conex, Heat resistant up to 200°C) K: With Lock Nut (E: Used in combination with long rod end thread) L: With T-End (Rod End Eye) M: With Y-End (Rod End Clevis) X** Y** Code and number of proximity switch	20	

★1. Using the options in combination is available. Please specify the option code in the alphabet. ex. EGKLX52

However, in case of the double type, the options E,F,G,H and K are attached to the both ends. The options L and M are attached at one end only.

- ★3. Please refer to the next page for the code and quantity of proximity switches to be ordered. All switches are CE compliant.
- ★4. Cushion type "B" and "R" are not available for CJT70L and CJT140L rod A series with cylinder bore 40, 50, and 63.
- ★5. 6: Hydrogenated Nitrile Rubber is not available for CJT70L/140L.

★2. As for each direction of port & cushion adj. valve, air vent valve, please select from ③③②① viewed from rod end(see the figure on the below). For standard directions, please see the Model Number Designation.

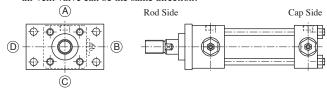
Note: <CJT35L, CJT210CL>

The direction of port, cushion adj. valve, and air vent valve are not available to be the same direction.

In addition, the direction of air vent valve is two sides except for the port and cushion adj. valve.

<CJT70/140L>

The direction of port and cushion valve are not available to be the same direction. However, port and air vent valve, and cushion adj. valve and air vent valve can be the same direction.



Proximity Switch Code and Number

X1 2
Number of Switches
1:1 Pc.
2:2 Pcs.

3:3 Pcs.
-Code of Switch

(Refer to table on the right)

Code	Switch Type	Detalis					
X1	AX111CE		Lead Wire 1.5m				
X5	AX115CE	Contact	Lead Wire 5m				
XA	AX11ACE	Switch	Plug-in Connector(AC)				
XB	AX11BCE		Plug-in Connector(DC)				
Y1	AX201CE	Contactless	Lead Wire 1.5m				
Y5	AX205CE	Switch	Lead Wire 5m				

^{*} Please refer to "Switch Specifications" below to determine the proximity switch format.

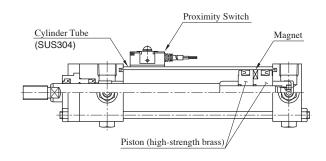
Switch Specifications

			Contact	Switch		Contactle	Contactless Switch		
	Lead Wire 1.5m	AX111CE				AX201CE			
Type	Lead Wire 5m		AX115CE				AX205CE		
Ty	Plug-in Connector (AC)			AX11ACE ^{★3}					
	Plug-in Connector (DC)		_		AX11BCE ^{★3}	_			
L	oad Voltage Range	5 to 120 V AC	5 to 30 V DC	5 to 120 V AC	5 to 30 V DC	5 to 30	OV DC		
Lo	oad Current Range	5 to 20 mA AC	5 to 40 mA DC	5 to 20 mA AC	5 to 40 mA DC	5 to 40:	mA DC		
M	aximum Switching Capacity	2 VA : AC	1.5 W : DC	2 VA	1.5 W	ı	_		
Vo	oltage Drop		TYP; 2V (at 1	10mA) 3V以下		4 V c	or less		
C	urrent Leakage		10μ A	or less		0.1 mA	or less		
O	perating Time		1 ms	or less		10 ms	or less		
R	epeatability		1 ms	or less		10 ms	or less		
In	sulation Resistance		100	$M\Omega$ or more (bet	ween case and co	rd) at 500 V DC mega			
V	oltage Proof				1 minute (between				
Sł	nock Proof			n-Repetitive)			n-Repetitive)		
V	ibration Proof	±0.75mm amplitude,	10 to 55Hz (1 sweep,	1 minute) 2 hours in	each direction X, Y, Z	±0.3mm amplitude, 10 to 200Hz (L	og sweep, 1 hour) X, Y, Z directions		
A	mbient Temperature				+70°C (No free				
W	iring Method		0.3 m	nm ² 2-core, outer	diameter 4 mm oi	il-resistant cabtyre cord			
Pı	rotective Structure		IP6′	7 (IEC standard),	JIS C 0920 (dust	and immersion proof)			
	ontact Protection Circuit				Available				
In	dicator Light				Red color lighting	when switch is "ON".)			
A	llowable Length of Wire ^{★2}		10 m : AC 100	m:DC		10 m			
El	lectrical Circuit	Reed Swi	Ci	otective rcuit — (Blu	Ž	Switch Main Circuit Electrical	Output *1 (Brown) GND *1 (Blue)		
C	ompatible Load			Compact Re	elay Programmabl	e Controller			

- ★1. In the case of DC power supply, pay attention to the polarity (color of the lead wires or position of the plus/minus terminals of the connector) and make sure that the wiring is correct.
- ★2. If the wiring length exceeds the allowable wiring length, please consult us.
- ★3. The connector used for the type with connector is NECA (Nippon Electric Control Equipment Industries Association standard) 4202 connector for FA sensors (M12 × 1).
- ★4. When using an inductive load (relay, etc.) without a contact protection circuit, be sure to attach a protection circuit to the load.

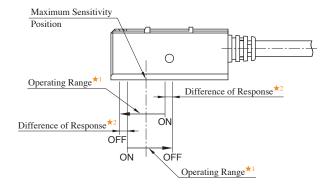
Structure and Operation

When the cylinder piston moves and is positioned below the proximity switch, the magnetic field generated by the magnet built into the piston activates the switch to detect the cylinder stroke position.





Operating Characteristics of Proximity Switch



★1. Operating Range

The distance traveled by the piston in one direction from the time the switch turns ON to the time it turns OFF.

★2. Difference of Response

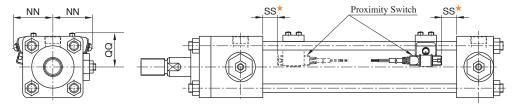
The distance traveled by the piston in one direction from the position where the switch turns ON to the position where the piston travels in the opposite direction to turn OFF. The switch characteristics are unstable in this region.

Coming		Contact S	Switch	Contactless	s Switch	
Series Number	Cylinder Bore mm	Operating Range mm	Diff. of Response mm	Operating Range mm	Diff. of Response mm	
CITAGI	32 40 50	5 - 10	1 1	3 - 6	1 or less	
CJT35L	63 80 100	7 - 11 8 - 12	1 or less	3 - 7 4 - 7		
	32	8 - 12		4-7		
CJT70L	50 63	4 - 14	2 or less	3 - 8	1 or less	
CJT140L	80 100 125	11 - 18 5 - 15	-	4 - 10 6 - 13		
CJT210CL	40 50 63 80	4 - 14	2 or less	3 - 8	2 or less	

Dimensions

Installation dimensions for cylinders with proximity switch are the same as for the "CJT" series hydraulic cylinders, so please refer to the appropriate page.

The dimensions of the proximity switch and the optimum installation position for stroke end position detection are as follows.

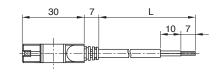


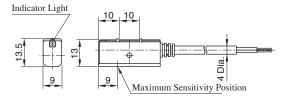
★The SS dimension is the optimum setting position for stroke end detection. The maximum sensitivity position of the switch is SS + 9 mm.

Series Number	Cylinder Bore mm	Piston Rod Size	NN	QQ	Contact/Conta	actless Switch			
		SIZC	24 24		Rod Side	Cap Side			
	32		34	34					
	40		36	30	4				
CJT35L	50	S	41	35	4	5			
CJIJJE	63		47	40	(5			
	80		54	54	2	1			
	100		65	60	4				
	32		38	33	14				
	40		41	36	14				
CJT70L	50	4 D G	47	45	14	1			
	63	A·B·C Common	52	50	26	5			
CJT140L	80	Common	62	60	30)			
	100		72	73	28	3			
	125		85	85	30)			
	40		40	40	16	14			
CJT210CL	50	A·B	46	46	17	13			
CJ1210CL	63	Common	53	53	17				
	80		61	61	18	3			

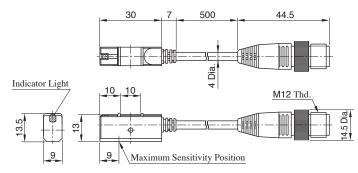
Dimensions of Proximity Switch

🔴 Lead Wire Type:AX111CE, AX115CE, AX201CE-1, AX205CE-1 💨 Plug-in Type:AX11ACE, AX11BCE





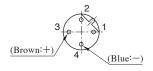
Switch Type	L
AX111CE AX201CE-1	1500
AX115CE AX205CE-1	5000

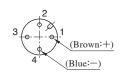


Connector Pin

AX11ACE (AC)

AX11BCE(DC)





Handling Proximity Switch

Method of setting and fixing the detection position

- 1. The switch can be mounted on any tie rod. Mounting the switch in the most suitable location according to the mounting space and wiring method of the cylinder.
- 2. Loosen the two set screws securing the bracket on which the switch is mounted with an Allen wrench, and move the switch along the tie rods.

Refer to the table below for set screw sizes.

- 3. For position detection at the stroke end, adjust the position referring to the SS dimensions in the outline dimension drawing on the previous page.
 - For position detection at the mid-stroke, adjust the position so that the switch indicator light starts to turn on at the desired position.
- 4. Press down lightly on the top surface of the switch with your finger and tighten the set screw while the cylinder tube is in contact with the detection surface of the switch. Refer to the table below for the proper tightening torque for the set screw.

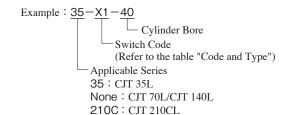
Note: If the tightening torque is not appropriate, the switch may be misaligned.

Set Screw Size and Correct Tightening Torque

Series Number	Cylinder Bore	Screw Size	Appropriate Tightening Torque Nm		
CJT35L	32 - 80	M5 Thd.	1 - 2		
CJT70L	32, 40	M5 Thd.	1 - 2		
CJT140L	CJT140L 50 - 125		2 - 3		
CJT210CL	40	M5 Thd.	1 - 2		
CJ1210CL	50 - 80	M6 Thd.	2 - 3		

How to Order Proximity Switch

1. When ordering a proximity switch ass'y including bracket, please specify according to the following.



Code and Type

Switch Code	Switch Type	Details					
X1	AX111CE		Lead Wire 1.5 m				
X5	AX115CE	Contact	Lead Wire 5 m				
XA	AX11ACE	Туре	Plug-in Connector (AC)				
XB	AX11BCE		Plug-in Connector (DC)				
Y1	AX201CE	Contactless	Lead Wire 1.5 m				
Y5	AX205CE	Туре	Lead Wire 5 m				

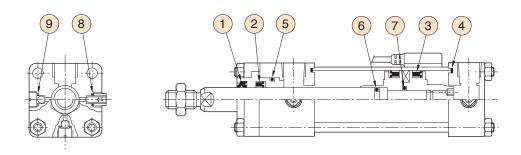
2. When ordering a single proximity switch, use the switch code in the table above.

Ex) Proximity Switch: X1



List of Seals

CJT35L



	Item	1	2	3	4	(5)	6	7	8	9
Cylinder Bore	.,	Dust Seal	Rod Packing	Piston Packing	Packing for Cover	O-Ring for Bush	O-Ring A for Piston	O-Ring B for Piston	Cushion Valve Seal	Check Valve Seal
	for Seal Kit * Q'ty	1	1	2	2	1	1	1	2	4
32	KS-CJT35- 32S-30	DHS-16	UHR-16	RHP-32	TX- 32	G25	S10	P12	TF- 8	CR- 8
40	KS-CJT35- 40S-30	DHS-16	UHR-16	RHP-40	TX- 40	G25	P12	P12	TF- 8	CR- 8
50	KS-CJT35- 50S-30	DHS-22	UHR-22	RHP-50	TX- 50	G35	P18	P18	TF- 8	CR- 8
63	KS-CJT35- 63S-30	DHS-22	UHR-22	RHP-63	TX- 63	G35	P18	P18	TF-12	CR-12
80	KS-CJT35- 80S-30	DHS-28	UHR-28A	RHP-80A	TX- 80	P36	P22A	P24	TF-12	CR-12
100	KS-CJT35-100S-30	DHS-36	UHR-36	RHP-100A	TX-100	P46	G30	G30	TF-14	CR-14

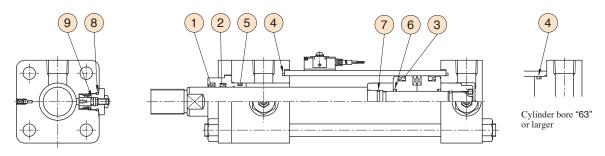
- ★1. Please specify the seal kit numbers above when ordering the seals.
- ★2. O-ring is OR NBR-70-1 P(G) * *-N. O-ring code "S" for item ⑥ and bore 32 is a special standard.
- ★3. Material of standard packings is Nitrile Rubber. For Fluorocarbon Rubber and Hydrogenated Nitrile Rubber materials, specify the following code after "KS-".

Fluoro rubber: F-, Hydrogenated nitrile rubber: 6-

Note: The packing code changes without notice.

List of Seals

CJT70L CJT140L



		Item	1	2	3	4 ★3	(5)	6	⑦ ★4	8	9	
der	Name Name		Dust Seal	Rod Packing	Piston Packing	Packing for Cover		'	O-Ring for Cushion Ring 90 P(G) * *		O-Ring for Slide Rod (OR NBR-70-1) P**-N	
Cylin Bore			1	1	2	2	1	2	1	★5	★5	
32	В	KS-CJTL 32B-20	SDR-18	SKY-18	SKY- 24	GR-32	P21	P12	S12	P14	P5	
	C	KS-CJTL 32C-20	SDR-14	SKY-14	SIX 1- 2-			112	512	117	13	
	A	KS-CJTL 40A-20	SDR-28	SKY-28	SKY- 30		G30		_		P5	
40	В	KS-CJTL 40B-20	SDR-22	SKY-22		GR-40	G25	P16	S16	P14		
	C	KS-CJTL 40C-20	SDR-18	SKY-18								
	A	KS-CJTL 50A-20	SDR-36	SKY-36	SKY- 40	GR-50	G40					
50	В	KS-CJTL 50B-20	SDR-28	SKY-28			G30	P20	S20	P14	P5	
	С	KS-CJTL 50C-20	SDR-22	SKY-22					~			
	Α	KS-CJTL 63A-20	SDR-45	SKY-45A			G50		_	P14	P5	
63	В	KS-CJTL 63B-20	SDR-36	SKY-36	SKY- 53	G 55	G40	G25	G25			
	C	KS-CJTL 63C-20	SDR-28	SKY-28								
	A	KS-CJTL 80A-20	SDR-56	SKY-56			G60					
80	В	KS-CJTL 80B-20	SDR-45	SKY-45A	SKY- 71	G 75	G50	P31	P31	P14	P5	
	С	KS-CJTL 80C-20	SDR-36	SKY-36								
	A	KS-CJTL100A-20		SKY-70			G75					
100	В	KS-CJTL100B-20	SDR-56	SKY-56	SKY- 85	G 95	G60	G55	G40	P14	P5	
	C	KS-CJTL100C-20	SDR-45	SKY-45A								
	A	KS-CJTL125A-20	SDR-90	SKY-90			G95			P18, P14	P7, P5	
125	В	KS-CJTL125B-20	SDR-70	SKY-70	SKY-112A	G120	G75	G80	G50	P18	P7	
	C	KS-CJTL125C-20	SDR-56	SKY-56			0/3			110	1 /	

- \bigstar 1. Please specify the seal kit numbers above when ordering the seals.
- ★2. Material of standard packings is Nitrile-Rubber. Please select Fluoro-Rubber packing material if Phosphate Esters oil is used. Please specify "F-" in addition to the model of seal kit after "KS-".
- ★3. Packing code "GR" of item No.4 is square O-ring.
- ★4. O-ring code "S" of item No.7 is special O-ring.
- \bigstar 5. There are 2 O-Rings.

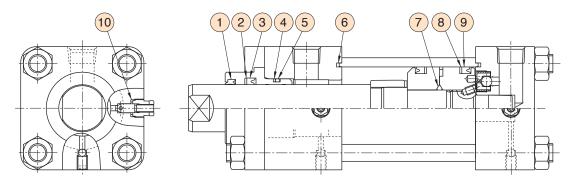
The large O-Rings (1 each) / Cap Side, The small O-Rings (1 each) / Rod Side.

Note: The packing code changes without notice.

YUKEN

List of Seals

CJT210CL



	Model Numbers for Seal Kit	Rod B					Rod A				
Cylinder Bore		Dust Seal	Backup Ring for Rod Packing	Rod Packing ③	Backup Ring for Bush	O-Ring *2 for Bush	Dust Seal	Backup Ring for Rod Packing	Rod Packing ③	Backup Ring for Bush	O-Ring for Bush 5 *2
40	KS-CJT210CL-40*-20	LBH-22	22×30×1	IUH-22A	BUR-G25	G25	LBH-28	28×35.5×1	IUH-28	BUR-G31 ★3	G30
50	KS-CJT210CL-50*-20	LBH-28	28×35.5×1	IUH-28	BUR-G31 **3	G30	LBH-36	36×46×1.5	IUH-36	BUR-G40	G40
63	KS-CJT210CL-63*-20	LBH-36	36×46×1.5	IUH-36	BUR-G40	G40	LBH-45	45×56×1.5	IUH-45A	BUR-G55	G55
80	KS-CJT210CL-80*-20	LBH-45	45×56×1.5	IUH-45A	BUR-G55	G55	LBH-56	56×66×1.5	IUH-56	BUR-G65	G65

(Cylinder Bore	Model Numbers for Seal Kit	Cover Seal	O-Ring★2 for Piston ⑦	Backup Ring for Piston Packing ®	Piston Packing	Cushion Valve Seal 10
	40	KS-CJT210CL-40*-20	TT-40	S16	40×30×1.5	OUHR-40	CX-12H
	50	KS-CJT210CL-50*-20	TT-50	P22	50×40×1.5	OUHR-50	CX-12H
	63	KS-CJT210CL-63*-20	TT-63	P28	63×53×1.5	OUHR-63	CX-12H
	80	KS-CJT210CL-80*-20	TT-80	P36	80×71×2	OUHR-80A	CX-14H

(I)	1
2	1
3	1
4	1
(5)	1

- 6 2
- ① 1^{*4}
- 9 2 10 2

- ★1. Please indicate rod size A or B in * of the seal kit numbers.
- ★2. O-rings are the following standards.

Model Numbers	Standard
⑤O-Ring for Bush	OR NBR-70-1 P(G)**-N
⑦O-Ring for Piston Bore 50 - 80	OR NBR-90 P(G)**-N
⑦O-Ring for Piston Bore 40	Special Standard

- ★3. This is a backup ring of our standard.
- ★4. Only cylinder bore 40 will be 2 pcs.
- ★5. Material of standard packings is Nitrile Rubber. For Fluorocarbon Rubber and Hydrogenated Nitrile Rubber materials, specify the following code after "KS-". Fluoro rubber: F-, Hydrogenated nitrile rubber: 6-

Note: The packing code changes without notice.

Interchangeability in Installation between Current and New Design

"CJT 21 MPa" series compact type hydraulic cylinders with proximity switch has undergone the following model change to make it more compact and lightweight, contributing to space saving.

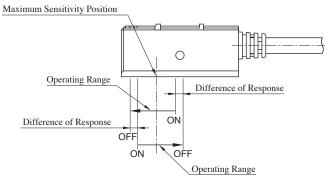
Design Number

Series Number	Change Detail
CJT210CL	10 Design to 20 Design

Proximity Switch

(1) Operating characteristics

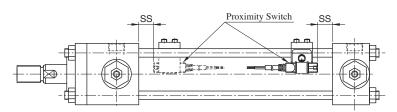
The same regardless of cylinder bore.



C	Culindon		Current	Products		New Products			
	Cylinder Bore mm	Contact Switch		Contactless Switch		Contact Switch		Contactless Switch	
		Operating	Diff. of	Operating	Diff. of	Operating	Diff. of	Operating	Diff. of
	*****	Range	Response	Range	Response	Range	Response	Range	Response
		mm	mm	mm	mm	mm	mm	mm	mm
	40	9		4	1 or less	4 - 14	2 or less	3 - 8	2 or less
	50	10	1 or less	5					
	63	11	1 Of ICSS	5					
	80	12		6					

(2)Dimensions

The stroke end detection setting position is the same regardless of the rod diameter and whether or not a contact switch is used.



G 11 1			New				
	Piston Rod Size	Contact Switch SS mm		Contactless Switch SS mm		Contact/Contactless Switch SS mm	
mm		Rod Side	Cap Side	Rod Side	Cap Side	Rod Side	Cap Side
40	A	2	1	23		16	14
40	В	21		24	23	16	
50	A	2	2	,	5	17	13
	В	23		25		17	13
63	A	26	27	28		- 17	
03	В	20	21	29			
80	A	34	32	33		18	
	В	31	32	34	33		8

Other Changes

Same as "CJT 21 MPa" series compact type hydraulic cylinder, refer to page J-50 to J-53.

Major Changes:Interchangeability in installation, air vent valve, cushion adjusting valve, cushion, specifications, mass table, options, list of seals, and dimensions.