PHOTOELECTRIC SENSORS & SWITCHES

MEASUREMENT SENSORS

PROXIMITY SWITCHES

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FL7M (DC2) Regular FL7M (DC2) Long-Distance No-Polarity

FL7M (DC2) Spatter-Gurded

FL7M-C (DC2) Environment-Resistant FL7M-A (DC2) Aluminum-Chip Resistant FL7M (DC2)

FL7M (AC/DC2)

 $\pmb{\mathsf{FL7M}}\,(\mathsf{DC3})$

DC2-Wire Cylindrical Long-Distance (€ மிம் மக்கம் No-Polarity Proximity Switches

Model FL7M Rigid structure reduces damage from collision with workpiece.



- Long sensing distance (M12: 4 mm, M18: 8 mm, M30: 15 mm)
- DC 2-wire switch with no polarity reduces wiring costs and wiring errors
- Stable sensing area is shown by the setting indicator
- Rigid housing allows higher mounting torque
- Firefly glow indicator can be seen from any direction
- Lowest current consumption in the industry: 0.55 mA
- Sealed to IP67G
- ■UL/CE certified (excluding some models)

ORDER GUIDE

Preleaded types

Exterior		Canaina diatana		Operation	Setting	Oil-resistant	0.1. "."
Appearance	Size(O.D.)	Sensing distance		mode	indicator	cable	Catalog listing
(cable length 2 m)	M12	4 mm		N.O.	•		FL7M-4W6
(Value of the state of the stat	IVIIZ	4 111111	N.C.		•	FL7M-4Y6	
	M18	8 mm		N.O.	•	•	FL7M-8W6
		8 min		N.C.		•	FL7M-8Y6
	Man		15	N.O.	•	•	FL7M-15W6
	M30	mr	mm	N.C.		•	FL7M-15Y6

Preleaded connector types

Exterior							Connector		
Appearance	Size(O.D.)	Sensing distance				Oil resistant, flexible cable	No-polarity	Catalog listing	
(cable length 30 cm)				N.O.	•	•	3 - 4	FL7M-4W6-CN03	
(oable length oo onl)	M12	4 mm		N.O.		•	1 - 4	FL7M-4W6-CN03B	
				N.C.		•	1 - 2	FL7M-4Y6-CN03	
				N.O.		•	3 - 4	FL7M-8W6-CN03	
	M18	8 mm		N.O.		•	1 - 4	FL7M-8W6-CN03B	
				N.C.		•	1 - 2	FL7M-8Y6-CN03	
	M30			N.O.		•	3 - 4	FL7M-15W6-CN03	
			15 mm	N.O.		•	1 - 4	FL7M-15W6-CN03B	
				N.C.		•	1 - 2	FL7M-15Y6-CN03	

Quick Lock connecter type

Exterior		Consing distance		Operation Se	Setting	Oil resistant,	Connector		Catalog listing	
Appearance	Size(O.D.)	Sensing distance		mode indicato		flexible cable	+	_	Catalog listing	
(cable length 30 cm)	M12	4		N.O.		•	3	4	FL7M-4W6-SN03	
	IVITZ	4 mm	N.C.		•	1	2	FL7M-4Y6-SN03		
	M18 8 mm	0	0	N.O.		•	3	4	FL7M-8W6-SN03	
		8 111111		N.C.		•	1	2	FL7M-8Y6-SN03	
	Man		15	N.O.		•	3	4	FL7M-15W6-SN03	
	M30		mm	N.C.		•	1	2	FL7M-15Y6-SN03	

Compatible with OMRON Smartclick connectors.

Smartclick Smartclick is a registered trademark of OMRON Corporation.

Accessories (sold separately)

Name	Appearance	O.D.	Catalog listing
		For M12	FL-PA112
Mounting bracket		For M18	FL-PA118
		For M30	FL-PA130
		For M12	FL-PA12
Protective cover		For M18	FL-PA18
		For M30	FL-PA30
		For M8	FL-PA08W
Spatter-guarded		For M12	FL-PA12W
protective cover		For M18	FL-PA18W
		For M30	FL-PA30W

SPECIFICATIONS

● Preleaded and preleaded connector types (-CN03), Quick Lock types (-SN03)

Catalog	listing		FL7M-4□6	FL7M-8□6	FL7M-15□6			
Actuatio	n method		F	ligh-frequency oscillation (shielded)			
Rated se	ensing dist	ance	4 ±0.4 mm	8 ±0.8 mm	15 ±1.5 mm			
Usable s	ensing dis	stance	0 to 2.8 mm	0 to 5.6 mm	0 to 10.5 mm			
Standard	d target ob	ject	12 x 12 mm, 1 mm thick iron	18 x 18 mm, 1 mm thick iron	30 x 30 mm, 1 mm thick iron			
Different	tial travel			15% max. of sensing distance				
Rated su	upply volta	ge		12/24 Vdc				
Operatin	ng voltage	range		10 to 30 Vdc				
Leakage	current			0.55 mA max.				
Output o	perationa	l mode		DC 2-wire, transistor output				
Control	output		Switching current 3 to 100 mA, vo output dielectric strength 30 Vdc	oltage drop 5.0V max. (with 100 m/	A switching current, 2 m cable),			
Operatin	ng frequen	су	Min. 1,000 Hz	Min. 500 Hz	Min. 300 Hz			
Tempera	ature drift		±10% of sensing distance max. for the -25 to +70°C range, taking +25°C as standard tem					
Supply v	oltage dri	ft	±1% of sensing distance max. with 15% voltage fluctuation, taking rated supply voltage as standard vo					
Indicato	r lamps		N.O. type: Operation indication: lights up (orange or green) when output ON Setting indication: lights up (green) in stable sensing area N.C. type: Operation indication: orange light goes out in sensing area					
Operatin	ng tempera	ture	−25 to +70°C					
Insulatio	n resistan	се		50 MΩ min. (by 500 Vdc)				
Dielectri	c strength			1,000 Vac, 50/60 Hz for 1 minute				
Vibratio	n resistano	e	, ,	eak-to-peak amplitude, 2 hrs each i	*			
Shock re	esistance		980 m/	s ² 10 times each in X, Y and Z dire	ections			
Protectiv	ve structur	е	IP67	(IEC standard), IP67G (JEM stand	lard)			
Weight (preleaded	type)	Approx. 60 g	Approx. 130 g	Approx. 230 g			
Circuit p	rotection		0 1 ,	hort-circuit protection, reverse con	<u>'</u>			
Wiring n	nethod		Preleaded (2 m cable), Prelead	led connector (30 cm cable), Quick	Lock connector (30 cm cable)			
		Case		Ni-plated brass				
Switch Sensing face			PBT					
Bushing			Nylon					
Material		Cable protector		Elastomer				
		Housing		Polyester elastomer				
	Connector	Holder		Glass-lined polyester resin				
		Contacts		Gold-plated brass				

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FL7M (DC2)

Spatter-Gurded

FL7S

FL7M-C (DC2) Environment-Resistant

FL7M-A (DC2) Aluminum-Chip Resistant

FL7M (DC2) Unshielded

 $\pmb{FL7M}\,(\text{AC/DC2})$

 $\pmb{\mathsf{FL7M}}\,(\mathsf{DC3})$

Connector with cable

See page F-001

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FL7M (DC2) Regular

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FL7S

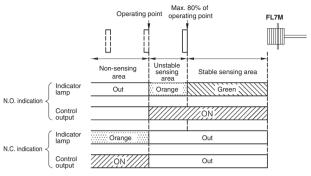
FL7M-A (DC2) Aluminum-Chip Resistant FL7M (DC2)

FL7M (AC/DC2)

FL7M (DC3)

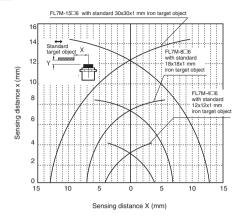
■ USING THE SETTING INDICATOR

The proximity switch can be set up to detect objects reliably by bringing the switch progressively closer to the target object and installing the switch at the point where the indicator lamp (N.O. indication) changes from orange to green.

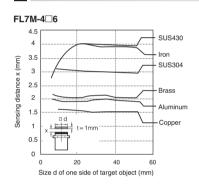


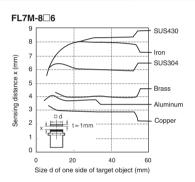
^{*}When the target object is made of a different material (such as aluminum, copper or stainless steel) from the standard target object (iron), the distance at which the indicator lamp changes color is shorter than the 80% maximum.

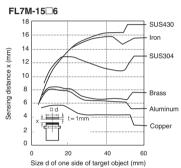
SENSING AREA (typical)



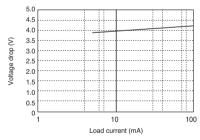
SENSING DISTANCE ACCORDING TO MATERIAL AND SIZE OF OBJECT (typical)



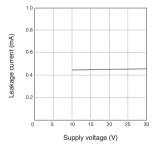




VOLTAGE DROP (typical)



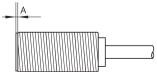
LEAKAGE CURRENT (typical)



EXTERNAL DIMENSIONS

(unit: mm)

*Long sensing distance no-polarity switches have projecting resin as shown below.



Catalog listing	Dimension A (mm)
FL7M-4□6	0.6
FL7M-8□6	0.6
FL7M-15□6	1.0

Preleaded type

FL7M-4-6 Toothed washer (iron) Sensing face (PBT) Vinyl-insulated cable (PVC) Case (Ni-plated brass) 40 2,000 min.

*On the FL7M-4\(\sigma\) 6 has a 0.6 mm projection of resin on the sensing face.

Vinyl-insulated cable (oil-resistant: 0.3 mm², 27/0.12 dia., 2-core), dia. 4.1 mm.

Cap color: blue

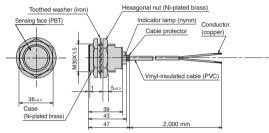
FL7M-8 6 Toothed washer (iron) Sensing face (PBT) Conductor (copper) Vinyl-insulated cable (PVC) Case (Ni-plated brass) Vinyl-insulated cable (PVC)

*The FL7M-8□6 has a 0.6 mm projection of resin on the sensing face.

Vinyl-insulated cable (oil-resistant: 0.5 mm², 20/0.18 dia., 2-core), dia. 5.7 mm.

Cap color: blue.

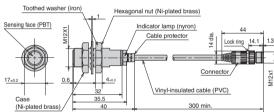
FL7M-15□6



*The FL7M-15 \square 6 has a 1.0 mm projection of resin on the sensing face. Vinyl-insulated cable (oil-resistant: 0.5 mm², 20/0.18 dia., 2-core), dia. 5.7 mm. Cap color: blue

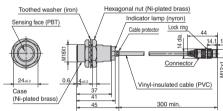
Preleaded connector type

FL7M-4 6-CN03



*The FL7M-4\(\top\)6 has a 0.6 mm projection of resin on the sensing face.
Vinyl-insulated cable (vibration-resistant, oil-resistant: 0.3 mm², 3/20/0.08 dia., 2-core), dia. 4.1 mm. Cap color: blue.

FL7M-8 6 -CN03

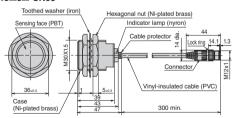


*The FL7M-8□6 has a 0.6 mm projection of resin on the sensing face.

Vinyl-insulated cable (vibration-resistant, oil-resistant: 0.5 mm², 7/15/0.08 dia.,

2-core), dia. 5.7 mm. Cap color: blue.

FL7M-15□6□-CN03



*The FL7M-15 \square 6 has a 1.0 mm projection of resin on the sensing face. Vinyl-insulated cable (vibration-resistant, oil-resistant: 0.5 mm², 7/15/0.08 dia., 2-core), dia. 5.7 mm. Cap color: blue.

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FL7M (DC2) Snatter-Gurrled

FL7S

FL7M-C (DC2)

FL7M-A (DC2) Aluminum-Chip Resistant

FL7M (DC2) Unshielded

FL7M (AC/DC2)

FL7M (DC3)

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FL7M (DC2)

FL7M (DC2) Long-Distance No-Polarity

FL7M (DC2) Spatter-Gurded

FL7S

FL7M-C (DC2) Environment-Resistant

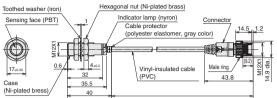
FL7M (DC2)

FL7M (AC/DC2)

FL7M (DC3)

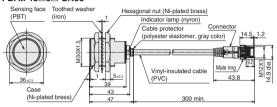
Quick Lock connector type

FL7M-4□6-SN03



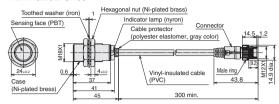
*The FL7M-4□6 has a 0.6 mm projection of resin on the sensing face. Vinyl-insulated cable (oil-resistant, vibration-resistant: 0.3 mm², 3/20/0.08 dia., 2-core), dia. 4.1 mm. Cap color: gray.

FL7M-15□6□-SN03



*The FL7M-15□6 has a 1.0 mm projection of resin on the sensing face. Vinyl-insulated cable (oil-resistant, vibration-resistant: 0.5 mm², 7/15/0.08 dia., 2-core), dia. 5.7 mm. Cap color: crav.

FL7M-8□6□-SN03



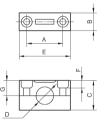
*The FL7M-8□6 has a 0.6 mm projection of resin on the sensing face. Vinyl-insulated cable (oil-resistant, vibration-resistant: 0.5 mm², 7/15/0.08 dia., 2-core), dia. 5.7 mm. Cap color: gray.

MOUNTING BRACKET (sold separately)

Mounting brackets are made of polyacetal resin.

Two screws and two washers are provided for each bracket.





FL-PA118 and FL-PA130 screw holes are oblong.

Catalog listing		Dimensions (mm)							
Catalog listing	Α	В	С	D	Е	F	G	Dia.	Neck
FL-PA112	25	12	20	12dia.	36	6	9.5	M4	25
FL-PA118	30/32	15	30	18dia.	45	7.5	14.5	M5	35
FL-PA130	40/45	15	50	30dia.	60	10	24.5	M5	55

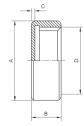
Allowable tightening torque of bracket screws

Catalog listing	Max. torque (N⋅m)
FL-PA112	0.98
FL-PA118	1.5
FL-PA130	1.5

PROTECTIVE COVER (sold separately)

Protective covers made of polyacetal resin are available for shielded models.

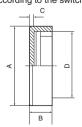
Select a model according to the switch's external dimensions.



Catalog listing	Dimensions (mm)							
Catalog listing	Α	В	С	D				
FL-PA12	14dia.	5	0.5	M12 x 1				
FL-PA18	21dia.	6	0.5	M18 x 1				
FL-PA30	33dia.	8	1.5	M30 x 1.5				

SPATTER-GUARDED PROTECTIVE COVER (sold separately)

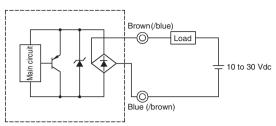
Spatter-guarded protective covers made of fluorine resin and designed especially for shielded switches are available. Select a model according to the switch's external dimensions.



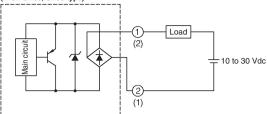
Catalog listing	Dimensions (mm)							
Catalog listing	Α	В	С	D				
FL-PA08W	10dia.	5	0.5	M8 x 1				
FL-PA12W	15dia.	5	0.7	M12 x 1				
FL-PA18W	22dia.	6	0.7	M18 x 1				
FL-PA30W	34dia.	8	1.5	M30 x 1.5				

WIRING DIAGRAMS

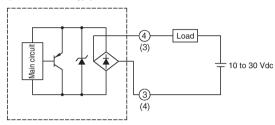
Preleaded type



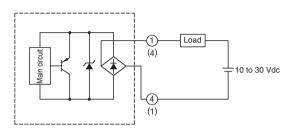
(Preleaded connector / Quick lock connector) type (N.C.: CN03, SN03 type)



(Preleaded connector / Quick lock connector) type (N.O.: CN03, SN03 type)



Preleaded connector type (N.O.: CN03B type)



• The load may be connected to either pole.

 A load must be used when power is supplied to the switch. Although there is short-circuit protection, a combination of a short circuit and wrong wiring can permanently damage the switch.

• The LED operates normally during a load short circuit, so check the wiring if the output is wrong.

• Fasten connectors tightly by hand.



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FL7M (DC2)

FL7S

 $\pmb{\mathsf{FL7M-C}}\,(\mathsf{DC2})$

FL7M-A(DC2)

FL7M (DC2)

FL7M (AC/DC2)

FL7M (DC3)

Connector with cable

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FL7M (DC2)

FL7M (DC2) Long-Distance No-Polarity

FL7M (DC2) Spatter-Gurded

FL7S

FL7M-C (DC2)

FL7M-A (DC2) Aluminum-Chip Resistant

FL7M (AC/DC2)

FL7M (DC3)

CONNECTOR SPECIFICATIONS¹¹

Item	Specifications							
	Connector type(polarity type only) / Preleaded connector type	Quick Lock connector type						
Insulation resistance	Max. 100 MΩ(by 500 Vdc megger)	Max. 50 MΩ(by 500 Vdc megger)						
Dielectric strength	1,500 Vac for 1 minute (between contacts, and between contact and connector housing)	1,000 Vac for 1 minute (between contacts, and between contact and connector housing)						
Initial contact resistance	$\label{eq:max.40} \text{Max. 40 m}\Omega$ (with 3A current to connected male and female connectors. Semiconductor lead-specific resistance not include							
Mating/unmating force	0.4 to 4.0 N	per contact						
Mating cycles	Min. 50							
Connector nut tightening torque	Min. 0.8 N⋅m*2							
Cable pullout strength	Min. 100 N							
Vibration resistance	10 to 55 Hz, 1.5 mm peak-to-peak amplitud	de, for 2 hours each in X, Y and Z directions						
Impact resistance	300 m/s ² , 3 times each in X, Y and Z directions	980 m/s ² , 10 times each in X, Y and Z directions						
Protective structure	IP	67						
Ambient operating temperature	-10 to	+70°C						
Ambient storage temperature	-20 to	+80°C						
Ambient operating humidity	Max. 9	5% RH						
Material	Contacts: Gold-plated brass Contact holder: Glass-lined polyester resin Housing: Polyester elastomer Coupling: Ni-plated brass O-ring: NBR	Contacts: Gold-plated brass Contact holder: Glass-lined polyester resin Housing: Polyester elastomer Coupling: Ni-plated zinc alloy O-ring: Fluorine rubber						

^{*1:} Specifications assume Azbil male/female connectors.

CONNECTOR WITH CABLE

Be sure to use a Model PA5 connector with cable when connecting a preleaded connector or connector-type switch.

Model PA5 connector with cable

Shape	Power supply	Cord properties	Cord length	Catalog listing	Lead colors
	- DC	Vinyl-insulated cord with high resistance to oil and vibration (UL/NFPA79 CM, CL3)	2 m	PA5-4ISX2SK	1: brown, 2: white, 3: blue, 4: black
			5 m	PA5-4ISX5SK	1: brown, 2: white, 3: blue, 4: black
			2 m	PA5-4ILX2SK	1: brown, 2: white, 3: blue, 4: black
			5 m	PA5-4ILX5SK	1: brown, 2: white, 3: blue, 4: black

Model PA5 connector with cable Preleaded connector type Female Male Switches side (male) Connector side (female)

Tightening the connector

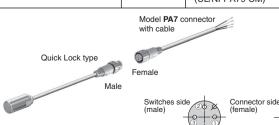
Align the grooves and rotate the fastening nut on the **PA5** connector by hand until it fits tightly with the connector on the switches side.

Switches side PA5 connector side

Be sure to use a Model PA7 connector with cable when connecting Quick Lock type switch.

Model PA7 connector with cable

Shape	Power supply	Cord properties	Cord length	Catalog listing	Lead colors
	DC	Vinyl-insulated cord with high resistance to oil and vibration (UL/NFPA79 CM)	2 m	PA7-4ISX2SK	1: brown, 2: white, 3: blue, 4: black
			5 m	PA7-4ISX5SK	1: brown, 2: white, 3: blue, 4: black



Tightening the connector

Align the triangle mark and mate the male and female connector then rotate 45 degree to match the keys on the rings by hand.



Compatible with OMRON Smartclick connectors.

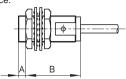
Smartclick Smartclick is a registered trademark of OMRON Corporation.

^{*2:} The recommended torque is 0.4 to 0.6 N-m. If fastened poorly, the IP67 protection is lost, or looseness occurs. Fasten the connector securely by hand.

PRECAUTIONS FOR USE

1. Mounting

The allowable tightening torque varies according to the distance from the sensing face.

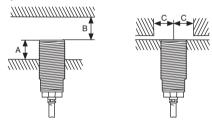


Catalog listing	Length A (mm)	Max. tightening torque (N⋅m)		
	A (IIIII)	Α	В	
FL7M-4□6	10	20	30	
FL7M-8□6	0	_	70	
FL7M-15□6	0	_	150	

^{*}The table shows the allowable tightening torque when toothed washers (provided) are used.

2. Influence of surrounding metal

Metal other than the target object surrounding the switch may influence operating characteristics. Leave space between the switch and surrounding metal as shown below.



Shaded areas indicate surrounding metal other than the target object.

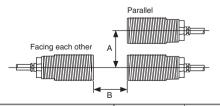
- $\ensuremath{\mathbf{A}}\xspace$ Distance from sensing face of proximity switch to mounting surface
- **B:** Distance from surface of iron plate to sensing face of proximity switch.

 Dimensions in parentheses apply if a hexagonal nut is attached to the front.
- C: Distance from surface of iron plate to center of proximity switch when A=0

Catalog listing	A(mm)	B(mm)	C(mm)
FL7M-4□6	2.5(5.5)	12	9
FL7M-8□6	3.5(6.5)	24	13.5
FL7M-15□6	6 (10)	45	22.5

3. Mutual interference prevention

When mounting proximity switches either parallel to or facing each other, mutual interference may cause the switch to malfunction. Maintain at least the distances indicated in the figures below.



Catalog listing	A(mm)	B(mm)	
FL7M-4□6	25	25	
FL7M-8□6	40	50	
FL7M-15□6	90	110	

4. Cautions for series or parallel connection

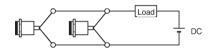
4.1 Series connection (AND switching circuit)

When connecting two or more proximity switches in series, erroneous output (1 to 3 ms) may occur without the rated current being supplied to each of the switches. For this reason, series connection of proximity switches is not recommended. However, if proximity switches must be connected in series, a resistor of 10 k Ω must be put in parallel to each of the switches. Note that the maximum leakage current in a series connection will be 3.5 mA. Operation lag also will occur, resulting in increased voltage drop, and the operation indicator lamp will not light.



4.2 Parallel connection (OR switching circuit)

- If two or more proximity switches are connected in parallel, total leakage current increases according to the following formula, and may result in the load not turning OFF. (Leakage current = Leakage current of single switch x No. of switches in parallel)
- When two or more switches in parallel turn ON, one (or more) of their operating indicators may not light up. This is normal.



5. Relay loads

The voltage drop of these **FL7M** switches is 5V. Pay attention to this voltage drop when using a relay load. (With 12 Vdc relays, switching is not possible.)

6. Operation upon power ON

After the power is turned ON, it takes at most 40 ms until the proximity switch is ready for sensing. If the load and the proximity switch use different power supplies, be sure to turn the proximity switch ON before turning the load ON.

7. Influence of leakage current

A minimal current flows as leakage current for operating the circuits even when the proximity switch is OFF. Keep this in mind when turning off connected loads.

8. Minimum cable bend radius (R)

The minimum bend radius (R) of the cable is 3 times the cable diameter. Take care not to bend the cable beyond this radius. Also, do not excessively bend the cable within 30 mm of the cable lead-in port

PHOTOELECTRIC SENSORS & SWITCHES

MEASUREMENT SENSORS

PROXIMITY SWITCHES

LIMIT

SAFETY KEY SWITCHES

CYLINDRICAL

SQUARE

TECHNICAL GUIDE

FL7M (DC2)

FL7M (DC2)

FL7M (DC2) Spatter-Gurded

FL7S

FL7M-C (DC2)

FL7M-A (DC2) Aluminum-Chip Resistan

FL7M (DC2)

FL7M (AC/DC2)

FL7M (DC3)

Connector with cable

Before use, thoroughly read the "Precautions for use" and "Precautions for handling" in the Technical Guide on pages **C-095** to **C-101** as well as the instruction manual and product specification for this switch.

^{*}The allowable tightening torque varies depending on the materials and surface conditions of the mounting plates, mounting housings, nuts, washers and other parts used for the switch. Check that the torque is appropriate for the actual combination of parts used before putting the switch into operation.

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