

SAFETY

KEY SWITCHES

CYLINDRICAL

SOLIARE

TECHNICAL

FL7M (DC2)

FL7M (DC2)

FL7M (DC2)

FL7M (DC3)

FL7S FL7M-C (DC2) Environment Resistant FL7M-A (DC2) Auminum Chip Resistant FL7M (DC2) Unschielded FL7M (AC/DC2)

DC2-Wire Aluminum-Chip Resistant (C Culture Cylindrical Proximity Switches

Model FL7M-A

A | Detects workpieces reliably even if aluminum or cast iron chips accumulate on the sensing head.



- DC2-wire proximity switches can be directly connected to programmable controllers and N.C. units. This reduces wiring costs
- Firefly indicator lamp can be checked even from the rear
- Tough IP67 seal
- Certified EN-compliant
- UL/CE certified (excluding some models)

ORDER GUIDE

Preleaded types

Exterior	Exterior		Exterior Sensing distance		Operation	Setting	Oil resistant	Catalog listing					
Appearance	Size (O.D.)	-	mode	indicator	cable	Catalog Isting							
(cable length 2 m)	M12	2 mm	N.O.		•	FL7M-2J6AD							
(course congue a my	IVIIZ	2 11111	N.C.		•	FL7M-2K6A							
	M10	Mio	M10	M10	M18	M10	M10	M10	4.mm	N.O.		•	FL7M-4J6AD
	IVIIO	4 mm	N.C.		•	FL7M-4K6A							
	1400		0.000	N.O.		•	FL7M-8J6AD						
	M30	8 mm	N.C.			FL7M-8K6A							

Preleaded connector types

Exterior		Soncing distance	Setting	ting Oil resistant,	Connector		Catalog listing		
Appearance	Size (O.D.)	Sensing distance	mode indicator		flexible cable	+	—	Catalog Isting	
(cable length 30 cm)	M12		N.O.		•	1	4	FL7M-2J6AD-CN03	
	IVI 12	2 mm	N.C.		•	1	2	FL7M-2K6A-CN03	
		4 mm	N.O.		•	1	4	FL7M-4J6AD-CN03	
	M18		N.O.		•	4	3	FL7M-4J6AD-CN03A	
			N.C.		•	1	2	FL7M-4K6A-CN03	
			N.O.		•	1	4	FL7M-8J6AD-CN03	
	M30	8 mm	N.O.		•	4	3	FL7M-8J6AD-CN03A	
			N.C.			1	2	FL7M-8K6A-CN03	

Quick Lock connecter type

Exterior		Sensing distance Operation		Setting	Oil resistant,	Conn	ector	Catalog listing	
Appearance	Size(O.D.)		mode indicator		flexible cable	+	_	Catalog listing	
(cable length 30 cm)	M12	0	N.O.		•	1	4	FL7M-2J6AD-SN03	
(cable longer co only	IVIIZ	2 mm	N.O.		•	1	2	FL7M-2K6A-SN03	
	M18	4 mm	N.O.		•	1	4	FL7M-4J6AD-SN03	
	IVIIO	4 11111	N.C.		•	1	2	FL7M-4K6A-SN03	
6	M30	8 mm	N.O.		•	1	4	FL7M-8J6AD-SN03	
	10130	8 mm	N.C.		•	1	2	FL7M-8K6A-SN03	

Compatible with OMRON Smartclick connectors. Smartclick Smartclick is a registered trademark of OMRON Corporation.

C-039

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	\bigcirc	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

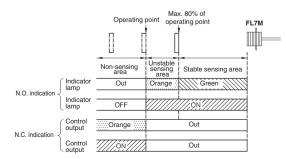
SPECIFICATIONS

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

Catalog lis	sting		FL7M-2J6AD, FL7M-2K6A	FL7M-4J6AD, FL7M-4K6A	FL7M-8J6AD, FL7M-8K6A			
Actuation	method		H	High-frequency oscillation (shielded	1)			
Rated sen	sing dist	ance	2 ± 0.2 mm	4 ± 0.4 mm	8 ± 0.8 mm			
Usable ser	nsing dis	tance	0 to 1.4 mm	0 to 2.8 mm	0 to 5.6 mm			
Standard t	target ob	ject	12 x 12 x 1 mm iron	30 x 30 x 1 mm iron	54 x 54 x 1 mm iron			
Differentia	l travel			20% max. of sensing distance				
Rated sup	ply volta	ge		12/24 Vdc				
Operating	voltage	range		10 to 30 Vdc				
Leakage c	urrent			0.55 mA max.				
Control ou	ıtpu		Switching current 3 to 100	mA, voltage drop 3V max., output	dielectric strength 30 Vdc			
Operating	frequend	;y	500 Hz	100 Hz	60 Hz			
Temperature drift			\pm 10% max. for the –25 to +70°C range	\pm 10% max. of sensing distance for the 0 to +50°C range, or \pm 20% for the -25° C to +70°C range when 25°C is taken as standard temperature.				
Supply vo	Supply voltage drift ± 1% max. of sensing distance with ± 15% voltage fluctuation, taking rated supply voltage as standard voltage ± 25% max. of sensing distance with taking rated supply voltage							
Indicator I	amps		N.O. type: Operation indication: lights (orange or green) at output ON Setting indication: lights (green) in stable sensing area N.C. type: Operation indication: orange light goes out in sensing area					
Operating	tempera	ture	-25 to +70°C					
Insulation	resistan	ce		50 MΩ min. (at 500 Vdc)				
Dielectric	strength			1000 Vac, 50/60 Hz for 1 minute				
Vibration r	resistanc	e	10 to 55 Hz, 1.5 mm pe	eak-to-peak amplitude, 2 hrs each	in X, Y and Z directions			
Shock res	istance		980 m	/s ² 10 times each in X, Y and Z dire	ections			
Protective	structur	e		IP67(IEC), IP67G(JEM)				
Weight (pr	releaded	type)	Approx. 60 g	Approx. 130 g	Approx. 230 g			
Circuit pro	otection		Surge absorption, loa	ad short-circuit protection, reverse	connection protection			
Wiring method Preleaded (2 m cable), Preleaded connector (30 cm cable), Quick Lock connector (30 c				CLock connector (30 cm cable)				
	Switch	Case	Ni-plated brass					
		Sensing face		PBT				
Material		Housing		Polyester elastomer				
Connector		Holder		Glass-lined polyester resin				
-								

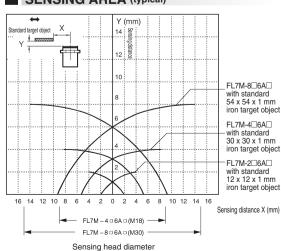
USING THE SETTING INDICATOR

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)



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

FL7M (DC2)

FL7S

FL7M-C (DC2)

FL7M-A(DC2)

FL7M (DC2)

FL7M (AC/DC2)

FL7M (DC3)

Connector with cable

C-040





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FL7M (DC2)

FL7M (DC2)

FL7M (DC2)

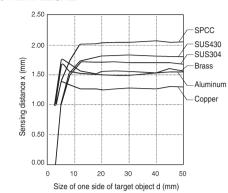
FL7M-C (DC2)

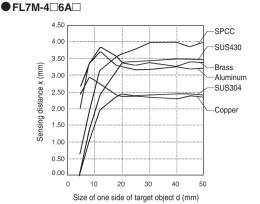
FL7M-A(DC2)

FL7M (DC2)

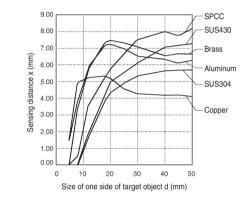
FL7M (AC/DC2)

FL7S



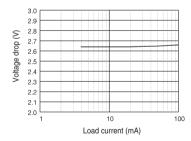


●FL7M-8□6A□

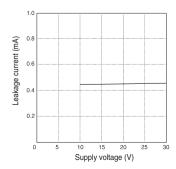




VOLTAGE DROP CHARACTERISTICS (typical)



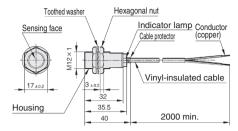
LEAKAGE CURRENT CHARACTERISTICS (typical)



EXTERNAL DIMENSIONS

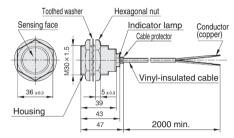
Preleaded type

FL7M-2 GA



Vinyl-insulated cable (oil-resistant: 0.3 $\rm mm^2,$ 27/0.12 dia., 2-core), dia. 4.1. Cap color: blue.

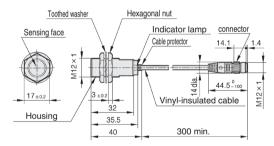
FL7M-806A



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

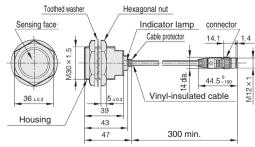
Preleaded Connector type

FL7M-2C6AC-CN03



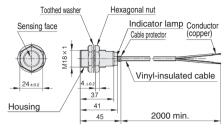
Vinyl-insulated cable (oil-resistant, vibration-resistant: 0.3 mm², 3/20/0.08 dia., 2-core), 4.1 dia. Cap color: blue

FL7M-806A0-CN03



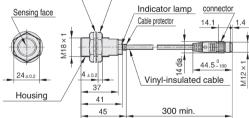
Vinyl-insulated cable (oil-resistant, vibration-resistant: 0.5 mm², 7/15/0.08 dia., 2-core), 5.7 dia. Cap color: blue

FL7M-4□6A□



Vinyl-insulated cable (oil-resistant: 0.5 $\rm mm^2,$ 20/0.18 dia., 2-core), dia. 5.7. Cap color: blue.

FL7M-4 6A C-CN03



Vinyl-insulated cable (oil-resistant, vibration-resistant: 0.5 mm², 7/15/0.08 dia., 2-core), 5.7 dia. Cap color: blue



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FL7M (DC2) Long-Distance No-Polarity

FL7M (DC2) Spatter-Gurded

FL7S

FL7M-C (DC2) Environment-Resistant

FL7M-A (DC2) Aluminum-Chin Besistant

FL7M (DC2)

FL7M (AC/DC2)

FL7M (DC3)



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FL7M-C (DC2) Environment-Resistant FL7M-A (DC2) Auminum-Ohip Resistant FL7M (DC2) Unshielded FL7M (AC/DC2) FL7M (DC3)

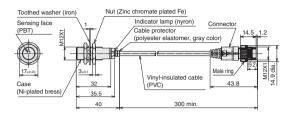
FL7S

SWITCHES

EXTERNAL DIMENSIONS

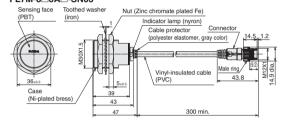
Quick Lock connector type

FL7M-2D6AD-SN03



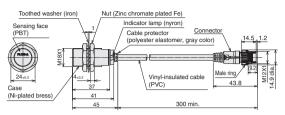
Vinyl-insulated cable (oil-resistant, vibration-resistant: 0.3 mm², 27/0.12 dia., 2-core), dia. 4.1. Cap color: gray.

FL7M-806A0-SN03



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

FL7M-4C6AC-SN03

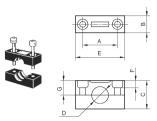


Vinyl-insulated cable (oil-resistant, vibration-resistant: 0.5 mm², 20/0.18 dia., 2-core), dia. 5.7. Cap color: gray.

MOUNTING BRACKET (sold separately)

Mounting brackets are made of polyacetal resin.

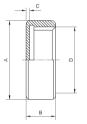
Two screws and two washers are provided for each bracket.



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	А	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			

Catalog listing

FL-PA112

FL-PA118

FL-PA130

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.

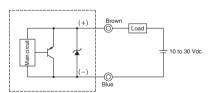
Catalog listing	Dimensions (mm)					
 Catalog listing	Α	В	С	D		
FL-PA12W	15dia.	5	0.7	M12 x 1		
FL-PA18W	22dia.	6	0.7	M18 x 1		
FL-PA30W	34dia.	8	1.5	M30 x 1.5		

WIRING DIAGRAMS

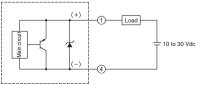
Preleaded type

B

С



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

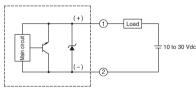


•The load may be connected to either pole.

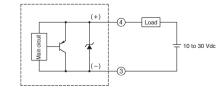
•A load must be used when power is supplied to the switch. Although there is short-circuit protection, a combination of a short circuit and wrong wiring can permanently damage the switch.

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

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



Preleaded connector type(N.O. : CN03A type)



FL-PA118 and FL-PA130 screw holes are oblong

Catalog listing		Dimensions (mm)							
Catalog insting	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

Max. torque (N·m)

0.98

1.5

1.5

Allowable tightening torque of bracket screws

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FL7M (DC2)

FL7M (DC2)

FL7S

FL7M-C(DC2)

FL7M-A(DC2)

FL7M (DC2)

FL7M (AC/DC2)

 $FL7M\,(\text{DC3})$



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FL7M (DC2)

FL7M-C (DC2) FL7M-A (DC2) FL7M (DC2) FL7M (AC/DC2) FL7M (DC3)

FL7S

CONNECTOR SPECIFICATIONS¹¹

Item	Specifi	cations		
	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	Max. 40 m Ω (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	8 N·m*2		
Cable pullout strength	Min. ⁻	100 N		
Vibration resistance	10 to 55 Hz, 1.5 mm peak-to-peak amplitude, 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.

*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.

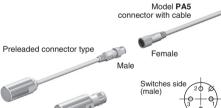
CONNECTOR WITH CABLE

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 5 i	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

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.

PA5 connector side



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

Model PA7 connector with cable

Male

Shape	Power supply	Cord properties	Cord length	Catalog listing	Lead colors
	DC	Vinyl-insulated cord with high resistance	2 m	PA7-4ISX2SK	1: brown, 2: white, 3: blue, 4: black
	DC	to oil and vibration (UL/NFPA79 CM)	5 m	PA7-4ISX5SK	1: brown, 2: white, 3: blue, 4: black
	Model PA7 co with cable	onnector	Align the tr	-	ctor nate the male and female connector n the keys on the rings by hand.
Quick Lock type Male	Female		Switches s	side	PA7 connector side
	Switches sid (male) -	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} \end{array} \\ \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \\ \begin{array}{c} 0 \\ 0 \end{array} \\ \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \\ \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \\ \end{array} \\ \begin{array}{c} 0 \\ 0 \end{array} \\ \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \\ \end{array} \\ \begin{array}{c} 0 \\ 0 \end{array} \\ \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \\ \end{array} \\ \begin{array}{c} 0 \\ 0 \end{array} \\ \end{array} \\ \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \\ \end{array} \\ \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \\ \end{array}$			

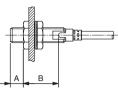
C-045

Compatible with OMRON Smartclick connectors. Smartclick Smartclick is a registered trademark of OMRON Corporation.

PRECAUTIONS FOR USE

1. Mounting

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



Catalog listing	Length A	Max. tightenin	g torque (N·m)
Catalog listing	(mm)	Α	В
FL7M-2□6A□	10	20	30
FL7M-4□6A□	0	—	70
FL7M-8□6A□	0	_	150

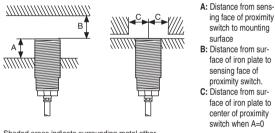
Note: The table shows the allowable tightening torque when toothed washers (provided) are used.

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.

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.



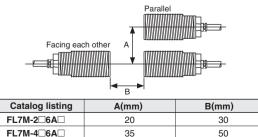
Shaded areas indicate surrounding metal other than the target object.

Catalog listing	A(mm)	B(mm)	C(mm)
FL7M-2□6A□	0	6	9.0
FL7M-4□6A□	0	20	13.5
FL7M-8□6A□	0	40	22.5

3. Mutual interference prevention

FL7M-806A

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.



70

100

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.

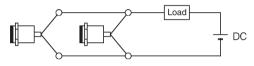
Operation lag = 80 ms X (No. of switches in series - 1) Voltage drop = Voltage drop of single switch X No. of switches in series

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 **FL7M-A** switches is 3V. 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.

MEASUREMENT

PROXIMITY Switches

LIMIT Switches

> SAFETY Key switches

CYLINDRICAL

TECHNICAL GUIDE

SOLIARE

FL7M (DC2) Regular FL7M (DC2) Larg-Gistace No Polishy FL7M (DC2) Spatter-Garded FL7S FL7M-C0C2) FL7M-C0C21

FL7M-A(DC2) Auminum-Chip Resistant

FL7M (AC/DC2)

FL7M (DC3)



C-N46



MEASUREMENT SENSORS

> PROXIMITY Switches

> > LIMIT

9. ALUMINUM CHIPS AND CAST IRON CHIPS

Generally, even if aluminum and cast iron chips are attached to or pressing against the sensing face, no signal is output. Take care, however, because under the conditions described below, a signal may sometimes be output.

9.1 FL7M-2 6A

SWITCHES SAFETY KEY SWITCHES

CYLINDRICAL

SQUARE

TECHNICAL GUIDE

FL7M (DC2)

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

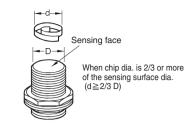
FL7S FL7M-C (DC2) Environment-Resistant FL7M-A (DC2)

Aluminum

Length of one side of aluminum chip	FL7M-2J6AD
0.1 mm max.	OFF
0.5 mm approx	OFF
2 mm max.	OFF or ON
4 mm min.	ON

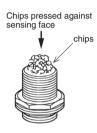
9.2 FL7M-4 6A , FL7M-8 6A

(1) Chip size (d) x size of sensing face (D)



Dimensions Catalog listing	D(mm)
FL7M-4J6AD, FL7M-4K6A	16
FL7M-8J6AD, FL7M-8K6A	28

(2) When chips are pressed against sensing face



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.

FL7M (DC2) Unshielded

 $FL7M\,(\text{DC3})$

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Azbil Corporation Advanced Automation Company

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