OMRON



Safety Light Curtain	
	Series
F3SJ-ADDDDDDDDD	Series

Quick Installation Manual



Relevant manual	Cat. No.
Safty Light Curtain F3SJ-A Series User's Manual	SCHG-718(PNP) SCHG-719(NPN)

Introduction

Thank you for purchasing the F3SJ-A Series Safety Light Curtain (hereinafter referred to as the "F3SJ-A"). This document is a brief description from wiring to pre-operation checklists / maintenance checklists of F3SJ-A. For details, download and read F3SJ-A user's manual from Omron's website. https://industrial.omron.us/en/home

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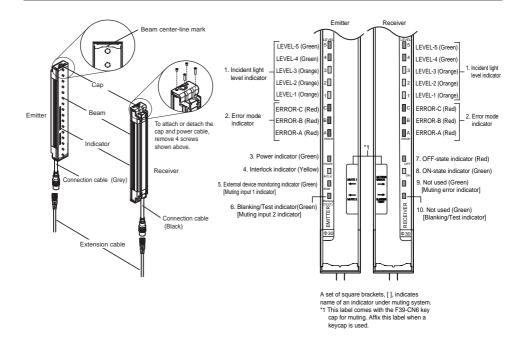
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1. What is Included

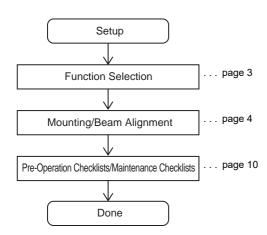
Product	Quantity	
F3SJ-A□□□□□□□ main unit	Emitter x 1, Receiver x 1	
	Functional Settings	
	Function	Setting
	External Test	PNP: Enabled when 9V to Vs*1 applied NPN: Enabled when 0V to 1.5V applied
	Interlock	Switching between manual reset mode and auto reset mode is available by wiring
	External Device Monitoring (EDM)	Switching between enable/disable is available by wiring
	Auxiliary Output	Auxiliary Output 1: Control Output Information (NOT output mode: Enabled) Auxiliary Output 2: Total Power ON Time Information (ON when 30000 hours passed) Functional settings can be changed by the setting tool (option)
		Enabled when External indicator set (F39-A01P□-PAC)/ Universal indicator cable (F39-JJ3N) attached
	External Indicator	In case of Basic System External Indicator 1: Control Output Information (NOT output mode: Enabled) External Indicator 2: Error/Lockout Information
=		In case of Muting System External Indicator 1: Muting/Override Information External Indicator 2: Muting/Override Information
	Muting	Enabled when muting Key Cap F39-CN6 attached
	Override	Enabled when muting Key Cap F39-CN6 attached
	*1 Vs here means the volta	age value under use environment.
		SJ-A series user's manual.
Top/Bottom Mounting Bracket	4	
Intermediate Mounting Bracket	Less than 600mm: 0 sets 600mm - 1130mm: 1 set	included in the product depends on the protective height of F3SJ-A.
	1136mm - 1658mm: 2 sets 1660mm - 2180mm: 3 sets 2195mm - 2500mm: 4 sets	
Error Mode Label	1	
Operation Manual	2	
Quick Installation Manual (this document)	1	

For ratings/specifications, input/output circuit, LED indicator status and troubleshooting, refer to F3SJ-A Series User's Manual.

2. System Components

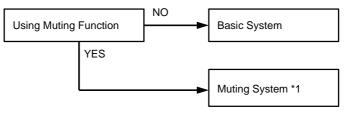


3. Light Curtain Setup Flow



4. Function Selection Flow Chart

Required system configuration depends on functions to be used. Use the following flow chart to determine the system. To change the functional settings, use the setting tool (option).



*1 Muting Key Cap (F39-CN6) is necessary.

For configuration and setting changes to use the muting function, refer to F3SJ-A series user's manual.

5. Mounting and Beam Alignment



For brackets other than those included in the product (F39-LJ1/F39-LJ3) as well as external dimensions and mounting, refer to F3SJ-A series user's manual.

5-1. Mutual Interference Prevention

■Series Connection

Series connection can prevent mutual interference when multiple sensors are used. Up to 4 sets, 400 beams, can be connected. The emission of series-connected F3SJ-A is time-divided, so mutual interference does not occur and safety is ensured.

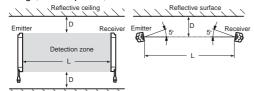
■No Connection

Mutual interference is prevented in up to 3 sets, using interference light avoidance algorithm. If 4 or more sets of F3SJ-A are installed and are not connected to each other, arrange them so that mutual interference does not occur. If 2 sets are installed near each other, reflection from the surface of the F3SJ-A may cause mutual interference. When mutual interference occurs, the safety outputs are turned OFF in a moment or the F3SJ-A enters lockout. Combining countermeasures 1 to 4 shown below is effective.

- 1. Install a physical barrier between 2 sets
- 2. Alternate the direction of emission between 2 sets (alternation) If 2 sets are installed near each other, reflection from the surfaces may cause mutual interference. For such a case, it can be improved by reducing operating range through the setting tool (see Step 3).
- 3. Reducing operating range (setting change by the setting tool is required)
- 4. Keep sufficient distance between the F3SJ-As so that mutual interference does not occur

5-2. Distance from Reflective Surfaces

Install the sensor system at distance D or further from highly reflective surfaces such as metallic walls, floors, ceilings, or workpieces, as shown below.



Distance between an emitter and a receiver (operating range L)	Allowable installation distance D
For 0.2 to 3m	0.13m
For 3m or more	L/2 x tan5 ° = L x 0.044 (m)

Reflective floor 5-3. Safety Distance

How to calculate the safety distance specified by International Standard ISO 13855(European standard EN ISO 13855)(Reference)

■ If a person approaches the detection zone of the F3SJ-A perpendicularly

 $S = K \times T + C \dots$ Formula (1)

- S: Safety distance
- K: Approach speed to the detection zone
- T: Total response time of the machine and F3SJ-A
- C: Additional distance calculated by the detection capability of the F3SJ-A
- <System that has detection capability of 40mm or less>

Use K = 2,000 mm/s and $C = 8 \times (d - 14 \text{mm})$ in formula (1) for the calculation.

- $S = 2,000 \text{mm/s} \times (\text{Tm} + \text{Ts}) + 8 \times (\text{d} 14 \text{mm})$
- S = Safety distance (mm)
- Tm = Machine's response time (s)
- Ts = Response time of the F3SJ-A from ON to OFF (s)
- d = Detection capability of the F3SJ-A (mm)
- <A system with larger detection capability than 40mm>

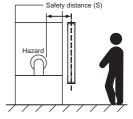
Calculate by using Formula (1) with K = 1,600mm/s and C = 850mm:

 $S = 1,600 \text{mm/s} \times (\text{Tm} + \text{Ts}) + 850 \dots \text{Formula} (4)$

- S = Safety distance (mm)
- Tm = Response time of the machine (s)
- Ts = F3SJ-A's response time from ON to OFF (s)

Please refer to the user's manual for calculation of following safety distance.

- ■Possible circumventing by reaching over the detection zone
- ■In case of horizontal approach of a human body to F3SJ-A's detection zone
- ■How to calculate the safety distance specified by American standard ANSI B11.19(reference)



5-4. External dimensions to attach the brackets included in the product (F39-LJ1/F39-LJ3)

■Dimensions (Check position)

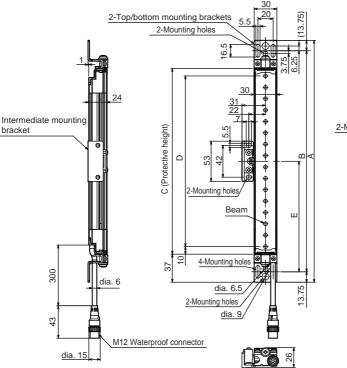
[Backside mounting]

Check position

Step2 Mount

Step3

beams



4-M5	
2-M5 22 11	<u>m</u>
	ш
+ + +	

[Unit : mm]

Dimensions A to E

Billionolono	
Α	C + 74
В	C + 46.5
С	4-digit number of the model name (protective height)
D	C - 20
E	Depends on the protective height. See the table below.

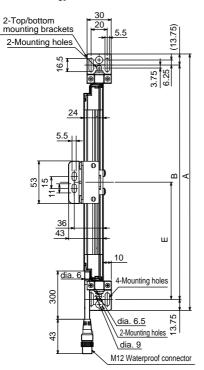
Dimension E

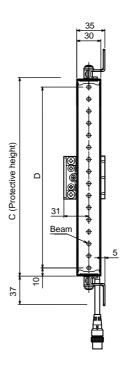
Billionolon E		
Protective height	Number of intermediate mounting brackets	E*1
0245 to 0596	0	-
0600 to 1130	1	B/2
1136 to 1658	2	B/3
1660 to 2180	3	B/4
2195 to 2500	4	B/5

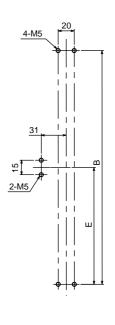
^{*1.} Use E = 530 or less when none of the E values shown above are used.

■Dimensions (Check position)

[Side mounting]







Check position

Step2 Mount

Step3 Align beams



[Unit : mm]

Dimensions A to E

Α	C + 74
В	C + 46.5
С	4-digit number of the model name (protective height)
D	C - 20
E	Depends on the protective height. See the table below.

Dimension E

Dillicitolott L		
Protective height	Number of intermediate mounting brackets	E*1
0245 to 0596	0	-
0600 to 1130	1	B/2
1136 to 1658	2	B/3
1660 to 2180	3	B/4
2195 to 2500	4	B/5

^{*1.} Use E = 530 or less when none of the E values shown above are used.

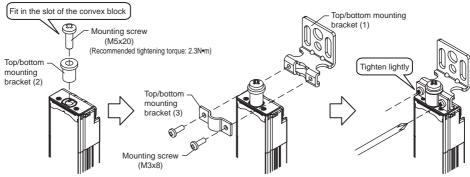
For dimensional drawing of mounting brackets other than those included in the product (F39-LJ1/F39-LJ3), refer to F3SJ-A series user's manual.

5-5. Mounting and Beam Alignment



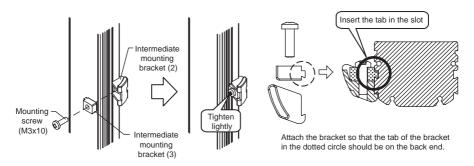
Step3

Align beams 1. Attach the top/bottom brackets.



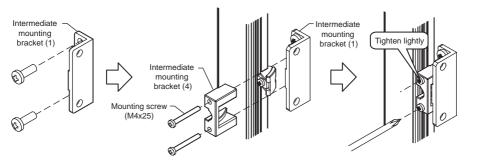
Tightening with torque exceeding the recommended value too much may lead to a failure.

2. Attach the intermediate mounting brackets (2) and (3).

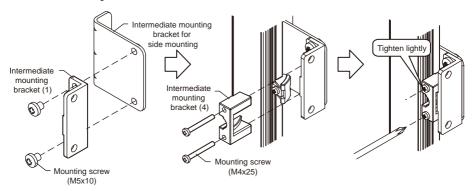


For mounting positions of the intermediate mounting brackets (2) and (3), refer to 5-4 E dimensions.

3. <On back end mounting> Attach the intermediate mounting brackets (1) and (4).



4. <On side mounting> Attach the intermediate mounting brackets (1) and (4) as well as the side-mounting intermediate mounting bracket.



(Recommended tightening torque: 2.3N•m)

Step1

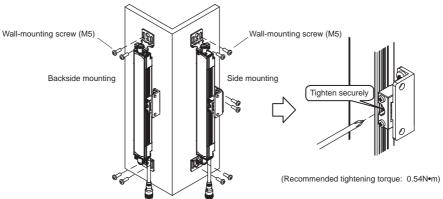
Check

Step3 Align beams

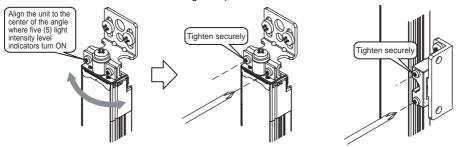
5. Fix the unit on the wall.



beams



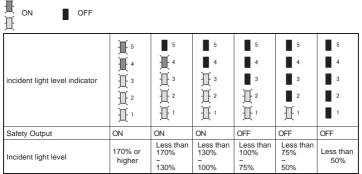
- Tightening with torque exceeding the recommended value too much may lead to a failure.
- Wall-mounting screws are not included.
- Align beams based on the indicators.
 Please refer to instruction sheet about wiring examples.



(Recommended tightening torque: 0.54N•m)

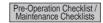
(Recommended tightening torque: 1.2N•m)

■Display Patterns of the Incident Light Level Indicator



- Operation is possible with incident light level of 100% or more, but to ensure stability, operate when all incident light level indicators.
- Please do not tighten each screw one by one. Fully tighten all of them in a balanced manner at all places.
- The angle adjustment range of mounting bracket F39-LJ3 is +/-10 degrees.





6.Pre-Operation Checklists / Maintenance Checklists

After wiring, mounting and beam alignment are done, check the operation of the F3SJ-A.

Pre-Operation Checklists

After installation, the highest level administrator must use the following checklist to verify the operation, placing a check mark in each of the boxes.

■Check	lists
--------	-------

Installation Condition Check
☐The machine itself does not prevent the operation of safety functions such as stopping.
☐The hazardous part of a machine cannot be reached without passing through the detection zone of the
F3SJ-A.
The system is configured so that the can always detect a worker who is working in the hazardous zone.
The interlock reset switch is installed in a location that provides a clear view of the entire hazardous zone
and it cannot be activated from within the hazardous zone.
□Safety distance has been calculated. Calculated distance: S = ()mm
□Safety distance has been calculated with larger detection capability when floating blanking is used. Calculated distance: S = ()mm
☐The actual distance is equal to or greater than the calculated distance. Actual distance = ()mm
□Reflective surfaces are not installed in prohibited zones.
□Not installed in a reflective configuration.
□When muting function is used, a muting sensor must be installed so that muting state should not occur
when a human body enters a detection zone of F3SJ-A by mistake.
□When muting function is used, a muting sensor must be installed so that muting state should not occur
when a human body enters a hazardous zone of a machine.
□When muting function is used, muting state can be checked from where a worker operates or adjust the
machine.
☐A muting sensor consists of 2 independent devices.
□It is not used in flammable or explosive atmosphere.
Wiring Check Before Power Is Turned ON
□When the power supply unit is connected to multiple devices, the power supply unit must have tolerance
against total rated current of the devices.
☐ The power supply unit is a 24 VDC unit that conforms to the EMC Directive, Low-voltage Directive, and
output holding specifications.
☐The power supply polarity is not connected in reverse.
□Emitter/receiver cables are properly connected to the respective emitters/receivers.
□Double insulation is used between I/O lines and the hazard potential (commercial power supplies, etc.).
□Outputs are not short-circuited to the following line.
F3SJ-A□□□□P□□: +24V line
F3SJ-A□□□□N□□: 0V line
Loads are not connected to the following line.
F3SJ-A□□□□P□□: +24V line
F3SJ-A□□□□N□□: 0V line
□All lines are not connected to commercial power source.
□F3SJ-A's power supply connector and series connection connector must not be attached upside down.
□Model of emitter and receiver must be the same.
□When 2 or more sets of F3SJ-A are used, series connection is made or mutual interference prevention
measures are taken.
□When 2 or more sets of F3SJ-As are used in series connection, PNP output type and NPN output type
must not be connected.
☐ A secondary sensor farthest from its power supply has either of the followings:
• Cap
Key cap for muting Muting laws (ast of laws and ast la)
• Muting lamp (set of lamp and cable)
□ Neither connector, cap, or bracket must be loose.
□ Auxiliary outputs 1 and 2, and external indicator outputs 1 and 2 must not be used as safety output.
□Power supply's 0V must be grounded for F3SJ-A□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
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- □Wiring must not be bent, cracked, nor damaged.
- Operation Check While the Machine Is Stopped
 - ☐The test rod is not deformed.

Depending on the unit's model and settings of floating blanking function, detection capability may vary. Use a test rod with an appropriate diameter for inspection. The model name of test rod is as follows.

Model name	Diameter
F39-TRD14	Dia. 14mm
F39-TRD20	Dia. 20mm
F39-TRD25	Dia. 25mm
F39-TRD30	Dia. 30mm

□The sensor can detect a test rod wherever it is in the detection zone. In other words, when a test rod is inserted into the detection zone, all 5 incident light level indicators turn OFF, and the OFF-state indicator turns ON. When fixed blanking function is used, you must ensure that all blanked zones in the detection zone are covered by construction and that there should be no zone that cannot detect the test rod in the detection zone. To check detection, insert the test rod vertically to detection area and move the test rod as shown in the diagram below.



□When the external test function is used:

The OFF-state indicator turns ON when the test input line is short-circuited in the following voltage.

F3SJ-A□□□□P□□:9V to Vs

□When the external device monitoring function is used:

When the F3SJ-A is blocked and the external device monitoring input terminal is open, it enters a lockout state

□When the start interlock function is used:

After the F3SJ-A is turned ON, the OFF-state indicator remains turned ON, even if the F3SJ-A is receiving light. The reset switch input turns ON the ON-state indicator.

□When the restart interlock function is used:

While the ON-state indicator is ON, the OFF-state indicator remains turned ON, even when the F3SJ-A is blocked and then receives light again. The reset switch input turns ON the ON-state indicator.

- □When muting function is used, minimum muting time limit required must be set.
- □When muting function's operation mode is exit only muting mode, minimum muting waiting time required must be set.
- Under muting state, a signal that indicates muting state must be output from either of the followings:
 - External Indicator 1 or 2
 - · Auxiliary Output 1
- □When override function is used, minimum override time limit required must be set.
- □Under override state, a signal that indicates override state must be output from either of the followings:
 - External Indicator 1 or 2
 - Auxiliary Output 1
- Checking that Hazardous Parts Stop While the Machine Operates
 - □The hazardous parts stop immediately when a test rod is inserted into the detection zone at 3 positions: "directly in front of the emitter", "directly in front of the receiver", and "between the emitter and receiver". (Use the appropriate test rod.)
 - ☐ The hazardous parts remain stopped as long as the test rod is in the detection zone.

Function Selection Mounting/Beam Alignment Pre-Operation Checklist / Maintenance Checklists
☐ The hazardous parts stop when the power of the F3SJ-A is turned OFF.
The actual response time of the whole machine is equal to or less than the calculated value.
Maintenance Checklists
To ensure safety, keep a record of the inspection results. When the user is a different person from those who
installed or designed the system, he/she must be properly trained for maintenance.
■ Checklists
- Inspection at Startup and When Changing Operators
☐There is no approach route other than through the detection zone of the F3SJ-A.
□Part of the operator's body always remains in the detection zone of the F3SJ-A when working around the
machine's hazardous part.
☐The actual safety distance is equal to or greater than the calculated value.
□There must be no dirt on or damage to the optical surface, spatter protection cover (F39-HJ, sold separately), or environment-resistant casing (F39-EJ, sold separately) of the F3SJ-A.
□OFF output indicator must be turned ON when test input line is short-circuited in the following voltage.
F3SJ-A□□□□P□□:9V to Vs
F3SJ-A□□□□N□□:0V to 1.5V
□When muting function is used, muting lamp must not be clear due to dirt or degradation.
☐The test rod is not deformed. ☐When the start interlock function is used:
After the F3SJ-A is turned ON, the OFF output indicator must remain turned ON, even if the F3SJ-A is
receiving light. The reset switch input must turn ON the ON output indicator.
□When the restart interlock function is used:
While the ON output indicator is ON, the OFF output indicator must remain turned ON, even when the
F3SJ-A is blocked and then receives light again. The reset switch input must turn ON the ON output indicator.
When the power of the F3SJ-A is turned ON while nothing is in the detection zone, it must operate as follows:
If start interlock is not used: Power indicator and ON output indicator must turn ON within 2 seconds (2.2 seconds in case of series connection). If start interlock is used: Power indicator and OFF output indicator must turn ON within 2 seconds (2.2 seconds in case of series connection).
□Nothing should exist in the detection zone and 5 incident light level indicators must turn ON at power on.
☐ The test rod is detected when it is moved around in the detection zone as shown in the diagram of Pre- Operation Checklists. In other words, when a test rod is inserted vertically into the detection zone, all 5 incident light level indicators turn OFF, and the OFF output indicator turns ON. Use an appropriate test rod based on the type code and floating blanking function for inspection.
□When muting function is used, installation condition of muting sensor must not be changed.
□When muting function is used, muting status can be checked from where a worker operates or adjust the
machine.
□Neither connector, cap, or bracket must be loose.
- Checking that Hazardous Parts Stop While the Machine Operates
☐ The hazardous parts are movable when nothing is in the detection zone. ☐ The hazardous parts stop immediately when a test rod is inserted into the detection zone at 3 positions: "directly in front of the emitter", "directly in front of the receiver", and "between the emitter and receiver". (Use the appropriate test rod.)
☐ The hazardous parts remain stopped as long as the test rod is in the detection zone.
☐The hazardous parts stop when the power of the F3SJ-A is turned OFF while nothing is in the detection
zone.
"
- Items to Inspect Every 6 Months or When Machine Settings Are Changed

In addition to inspection item at operation start, following items must also be verified.

☐ The outputs of the F3SJ-A and the machine are properly wired.

☐ The total number of times that the control relays/contactors have switched is significantly lower than their design lives.

☐There is no disturbance light.

□ Safety distance has been calculated with changed detection capability when floating blanking is changed. Calculated distance: S = ()mm

□When muting function setting is changed, a muting sensor must be installed so that muting state should not occur when a human body enters a detection zone of F3SJ-A by mistake.
□When muting function setting is changed, a muting sensor must be installed so that muting state should
not occur when a human body enters a hazardous zone of a machine.
□When muting function setting is changed, a muting sensor must consist of 2 independent devices.
□When F3SJ-A is connected again, a secondary sensor farthest from its power supply has either of the fol
lowings:
• Cap
Key cap for muting
Muting lamp (set of lamp and cable)
□Power supply's 0V must be grounded for F3SJ-A□□□□P□□.
□Power supply's 24V must be grounded for F3SJ-A□□□□N□□.
□Wiring must not be bent, cracked, nor damaged.

Suitability for Use

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

See also Product catalog for Warranty and Limitation of Liability.

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In the interest of product improvement, specifications are subject to change without notice.

OMRON



セーフティライトカーテン F3SJ-A□□□□P□□ シリーズ F3SJ-A□□□□N□□ シリーズ

クイックインストールマニュアル



関連マニュアル	マニュアル番号
セーフティライトカーテン F3SJ-A シリーズ	SCHG-718(PNP)
ユーザーズマニュアル	SCHG-719(NPN)

はじめに

このたびはセーフティライトカーテン形 F3SJ-A シリーズ (以下 F3SJ-A と呼びます)をお買い上げいただき、ありがとうございます。

本書は F3SJ-A の配線から動作チェックまでの流れを示した簡易説明書です。

詳細については F3SJ-A のユーザーズマニュアルを当社ウェブサイトからダウンロードし、よくお読みください。 http://www.fa.omron.co.jp

目次

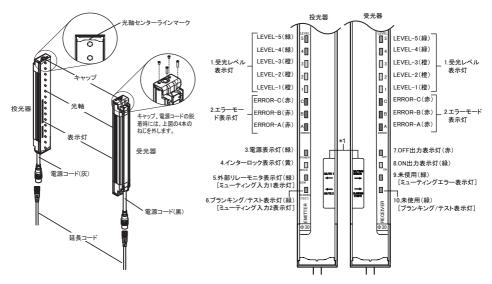
	1
2. 各部の名称	2
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1. 同梱物のご確認

製品	数量		
形F3SJ-A□□□□□□□本体	投光器×1、受光器×1		
	各種機能設定		
	機能	設定	
	外部テスト	PNP: 9V~Vs*1 印加時有効 NPN: 0V~1.5V印加時有効	
	インターロック	配線にてマニュアルリセットモード、オートリセットモード切り替え可能	
	外部リレーモニタ(EDM)	配線にて有効/無効の切り替え可能	
	補助出力	補助出力1:制御出力情報(反転出力モード:有効) 補助出力2:通電時間情報(30000時間経過時ON) 設定ツール(別売りアクセサリ)にて機能設定変更可能	
		大型表示灯セット(形F39-A01P□-PAC)、汎用表示灯コード(形F39-JJ3N)装着時有効	
	外部表示灯	ベーシックシステム時 外部表示灯1:制御出力情報(反転出力モード:有効) 外部表示灯2:エラー/ロックアウト情報	
		ミューティングシステム時 外部表示灯1:ミューティング/オーバーライド情報 外部表示灯2:ミューティング/オーバーライド情報	
	ミューティング	ミューティング用キーキャップ形F39-CN6装着時有効	
	オーバーライド	ミューティング用キーキャップ形F39-CN6装着時有効	
*1 ここでのVs とは使用環境での電圧値		環境での電圧値です。	
上下取付金具	4セット		
中間取付金具	同梱される金具の数量はF3SJ-Aの検出幅によって異なります。 600mm未満:0セット 600mm以上1130mm以下:1セット		
	1136mm以上1658mm以下: 2セット 1660mm以上2180mm以下: 3セット 2195mm以上2500mm以下: 4セット		
エラーモードラベル	1		
取扱説明書	2		
クイックインストールマニュアル(本紙	(1)		

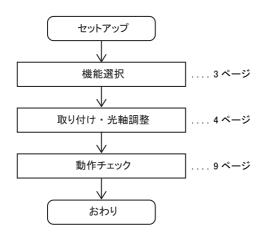
/ LEA 定格/性能、入出力回路、LED表示灯の点灯パターン、トラブルシューティングについては、F3SJ-Aシリーズユーザーズマニュアルを参照してください。

2. 各部の名称



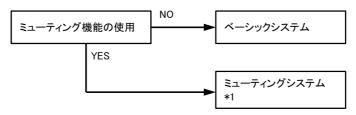
- []内はミューティングシステム時の表示灯名称です。
- *1 ミューティング用キーキャップ形F39-CN6に添付されています。 キーキャップ装着時にこのシールを貼付してください。

3. ライトカーテンセットアップの流れ



4. 機能選択フローチャート

使用する機能により必要なシステム構成が変わってきます。以下のフローチャートに従い、どのシステムが必要か決定してください。各種機能の設定変更は、設定ツール(別売りアクセサリ)を使用してください。



*1 ミューティング用キーキャップ(形F39-CN6)が必要です。

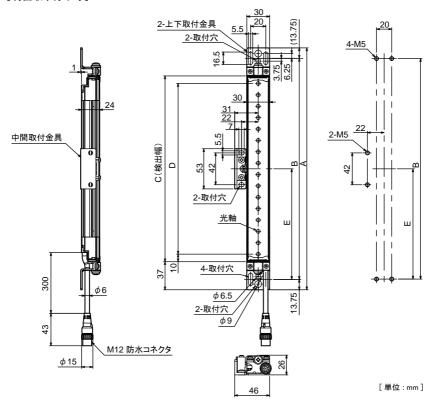
レン ミューティング機能を使用する場合の構成および各種設定変更については、F3SJ-Aシリーズューザーズマニュアルを参照してください。

5. 取り付け・光軸調整

[順語 はいる金具(形F39-LJ1、形F39-LJ3)以外の金具、外形寸法および取り付け方法については、F3SJ-Aシリーズユーザーズマニュアルを参照してください。

5-1. 同梱されている金具(形 F39-LJ1、形 F39-LJ3)を取り付ける場合の外形寸法 ■外形寸法図(取り付け位置確認)

[背面取り付け時]



寸法A~Eについて

1/ZA**LIC JUIC		
寸法A	C+74 C+46.5 形式中の4桁の数字(検出幅)	
寸法B		
寸法C		
寸法D	C-20	
寸法E	検出幅によって変ります。下表を確認ください。	

寸法Eについて

· /		
検出幅	中間取付金具の数	寸法E *1
0245~0596	0	1
0600~1130	1	B/2
1136~1658	2	B/3
1660~2180	3	B/4
2195~2500	4	B/5

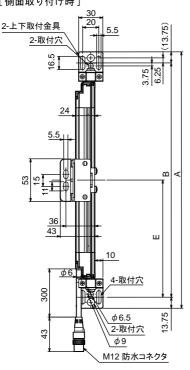
^{*1.} 上記計算により得られた値Eを使用しない場合は、E=530以下としてください。

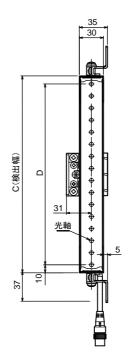


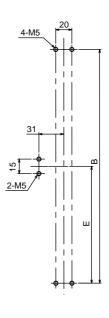
■外形寸法図(取り付け位置確認)

[側面取り付け時]











[単位:mm]

寸法A~Eについて

寸法A	C+74
寸法B	C+46.5
寸法C	形式中の4桁の数字(検出幅)
寸法D	C-20
寸法E	検出幅によって変ります。下表を確認ください。

寸法Eについて

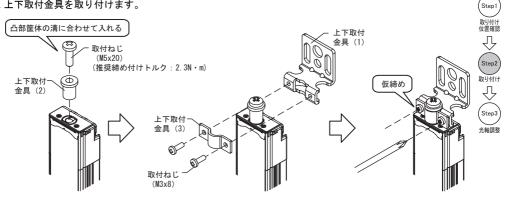
1 Acie 50. C			
検出幅 中間取付金具の数		寸法E *1	
0245~0596	0	-	
0600~1130	1	B/2	
1136~1658	2	B/3	
1660~2180	3	B/4	
2195~2500	4	B/5	

^{*1.} 上記計算により得られた値Eを使用しない場合は、E=530以下としてください。

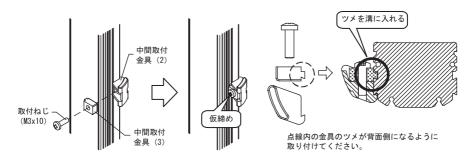
ュン 同梱されている金具(形F39-LJ1、形F39-LJ3)以外の取付金具の外形寸法図については、*F3SJ-Aシリーズユーザーズマニュ* アルを参照してください。

5-2. 取り付け方法と光軸調整

1. 上下取付金具を取り付けます。

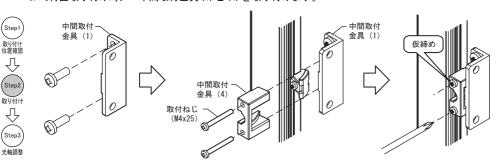


- 推奨値を大きく超えるトルクで固定すると故障の原因となります。
- 2. 中間取付金具(2)と(3)を取り付けます。

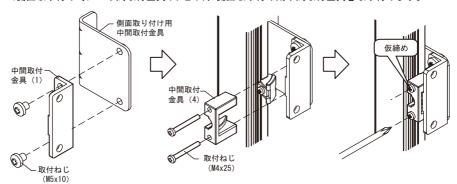


・ 中間取付金具(2)(3)の取り付け位置は本紙5-1項E寸法をご確認ください。

3. <背面取り付け時> 中間取付金具(1)と(4)を取り付けます。



4. <側面取り付け時> 中間取付金具(1)と(4)、側面取り付け用中間取付金具を取り付けます。



(推奨締め付けトルク: 2.3N·m)

Step1

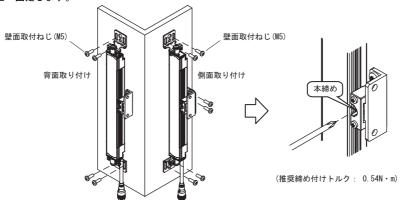
取り付け 位置確認

仝

Step2

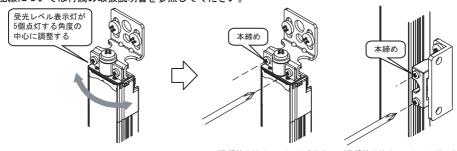
Step3 光軸調整

5. 壁面へ固定します。



- *** 推奨値を大きく超えるトルクで固定すると故障の原因となります。
- シン 壁面との取り付けねじは付属していません。
- 6. 表示灯を参考に光軸を調整します。

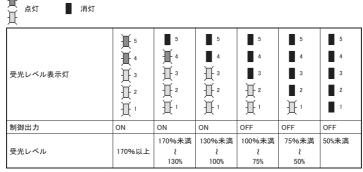
配線については付属の取扱説明書を参照してください。



(推奨締め付けトルク: 0.54Nm)

(推奨締め付けトルク: 1.2N・m)

■受光レベル表示灯の点灯パターン



- 会ねじは1ヶ所ずつ締めるのではなく、全ヶ所でバランスよく本締めしてください。
- 取付金具形F39-LJ3の角度調整範囲は±10°です。

Step1

取り付け 位置確認

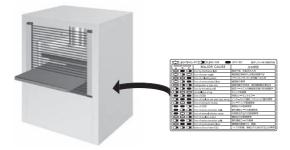
Step2

取り付け

Step3 光軸調整

6. 動作チェック

配線、取り付け・光軸調整が終わったら、F3SJ-Aの動作チェックを実施してください。必要に応じて添付のエラーモードラベルを形 F3SJ-Aの近くに貼ってください。



↓ トラブルシューティングについては、F3SJ-Aシリーズユーザーズマニュアルを参照してください。

// 動作チェックはF3SJ-Aシリーズユーザーズマニュアル記載のチェックリストに従い実施してください。

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- (a) 高い安全性が必要とされる用途(例:原子力制御設備、燃焼設備、航空・宇宙設備、鉄道設備、昇降設備、娯楽設備、医用機器、安全装置、その他生命・身体に危険が及びうる用途)
- (b) 高い信頼性が必要な用途(例:ガス・水道・電気等の供給システム、24 時間連続運転システム、決済システムほか権利・財産を取扱う用途など)
- (c) 厳しい条件または環境での用途(例:屋外に設置する設備、化学的汚染を被る設備、電磁的妨害を被る設備、振動・衝撃を受ける設備など) (d) カタログ等に記載のない条件や環境での用途
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●製品に関するお問い合わせ先

お客様相談室

イック オムロン

■端0120-919-066

携帯電話・PHS・IP電話などではご利用いただけませんので、下記の電話番号へおかけください。

電話 055-982-5015(通話料がかかります)

■営業時間:8:00~21:00 ■営業日:365日

●FAXやWebページでもお問い合わせいただけます。

FAX 055-982-5051 / www.fa.omron.co.ip

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