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## Small housing safety light curtain

The F3SJ\_A - family is a type 4 safety light curtain with a optical resolution of 14 mm and 30 mm. An operating range of up to 9 m and protective heights up to 2,495 mm  $\,$ are provided with no dead zone.

- Detection height = sensor height
- Muting and blanking function available
- LED bar for easy alignment and diagnosis
- . Type 4 sensor complying with EN 61496-1 and up to PLe according EN ISO 13849-1

#### **Ordering information**

#### **Safety Light Curtain**

| Application         | Detection capability | Beam gap | Operating range | Protective height (mm) | Order code |  |
|---------------------|----------------------|----------|-----------------|------------------------|------------|--|
|                     |                      |          |                 |                        | PNP output |  |
| Finger protection   | Dia. 14 mm           | 9 mm     | 0.2 to 9 m      | 245 to 1,631           | F3SJ-AP14  |  |
| Hand/arm protection | Dia. 30 mm           | 25 mm    | 0.2 to 9 m      | 245 to 1,620           | F3SJ-AP30  |  |
|                     |                      |          | 0.2 to 7 m      | 1,745 to 2,495         |            |  |

#### Safety Light Curtain Model List

F3SJ-A14 Series (9 mm gap), F3SJ-A14 TS Series (9 mm gap)\*1

| Number of Beams | Protective Height (mm)*2 | Order code    |
|-----------------|--------------------------|---------------|
|                 |                          | PNP Output*1  |
| 26              | 245                      | F3SJ-A0245P14 |
| 28              | 263                      | F3SJ-A0263P14 |
| 34              | 317                      | F3SJ-A0317P14 |
| 42              | 389                      | F3SJ-A0389P14 |
| 50              | 461                      | F3SJ-A0461P14 |
| 60              | 551                      | F3SJ-A0551P14 |
| 68              | 623                      | F3SJ-A0623P14 |
| 76              | 695                      | F3SJ-A0695P14 |
| 80              | 731                      | F3SJ-A0731P14 |
| 88              | 803                      | F3SJ-A0803P14 |
| 96              | 875                      | F3SJ-A0875P14 |
| 108             | 983                      | F3SJ-A0983P14 |
| 116             | 1,055                    | F3SJ-A1055P14 |
| 124             | 1,127                    | F3SJ-A1127P14 |
| 132             | 1,199                    | F3SJ-A1199P14 |
| 140             | 1,271                    | F3SJ-A1271P14 |

<sup>\*1.</sup> The suffix "-TS" is attached to the model number of models with fixed auto reset. (Only for PNP output)
\*2. Protective Height (mm) = Total sensor length

#### F3SJ-A30 Series (25 mm gap)

| Number of Beams | Protective Height (mm)*1 | Order code    |
|-----------------|--------------------------|---------------|
|                 |                          | PNP Output    |
| 10              | 245                      | F3SJ-A0245P30 |
| 12              | 295                      | F3SJ-A0295P30 |
| 16              | 395                      | F3SJ-A0395P30 |
| 19              | 470                      | F3SJ-A0470P30 |
| 21              | 520                      | F3SJ-A0520P30 |
| 22              | 545                      | F3SJ-A0545P30 |
| 23              | 570                      | F3SJ-A0570P30 |
| 25              | 620                      | F3SJ-A0620P30 |
| 29              | 720                      | F3SJ-A0720P30 |
| 32              | 795                      | F3SJ-A0795P30 |
| 35              | 870                      | F3SJ-A0870P30 |
| 37              | 920                      | F3SJ-A0920P30 |
| 38              | 945                      | F3SJ-A0945P30 |
| 41              | 1,020                    | F3SJ-A1020P30 |
| 44              | 1,095                    | F3SJ-A1095P30 |
| 45              | 1,120                    | F3SJ-A1120P30 |
| 48              | 1,195                    | F3SJ-A1195P30 |
| 51              | 1,270                    | F3SJ-A1270P30 |
| 56              | 1,395                    | F3SJ-A1395P30 |
| 65              | 1,620                    | F3SJ-A1620P30 |
| 70              | 1,745                    | F3SJ-A1745P30 |
| 75              | 1,870                    | F3SJ-A1870P30 |
| 80              | 1,995                    | F3SJ-A1995P30 |
| 90              | 2,245                    | F3SJ-A2245P30 |
| 95              | 2,370                    | F3SJ-A2370P30 |
| 100             | 2,495                    | F3SJ-A2495P30 |

<sup>\*1</sup> Protective Height (mm) = Total sensor length



#### **Accessories (Sold separately)**

#### Single-end Connector Cable (2 cables per set, for emitter and receiver)

For wiring with safety circuit such as single safety relay, safety relay unit, and safety controller.

| Appearance | Cable length | Specifications | Order code |
|------------|--------------|----------------|------------|
|            | 0.5 m        |                | F39-JCR5A  |
|            | 3 m          |                | F39-JC3A   |
|            | 7 m          |                | F39-JC7A   |
| "/         | 10 m         |                | F39-JC10A  |
|            | 15 m         |                | F39-JC15A  |
| C.F.       | 20 m         |                | F39-JC20A  |

### Sensor Mounting Brackets (Sold separately)

| Appearance | Specifications   | Application   | Remarks  | Order code |
|------------|--|---|--|------------|
|            | Standard mounting bracket (for top/bottom)   | (provided with the F3SJ)  | 2 for an emitter, 2 for a receiver, total of 4 per set | F39-LJ1    |
|            | Flat side mounting bracket   | Use these small-sized brackets when performing side mounting with standard mounting brackets, so that they do not protrude from the detection surface.                              |  | F39-LJ2    |
| -EP.       | Free-location mounting<br>bracket<br>(also used as standard inter-<br>mediate bracket) | Use these brackets for mounting on any place without using standard bracket.  | Two brackets per set                                   | F39-LJ3    |
|            | F3SN Intermediate Bracket<br>Replacement Spacers                                       | When replacing the F3SN with the F3SJ, the mounting hole pitches in the Intermediate Brackets are not the same. This Spacer is placed between the mounting holes to mount the F3SJ. | 1 set with 2 pieces                                    | F39-LJ3-SN |
|            | Top/bottom bracket B<br>(Mounting hole pitch 19 mm)                                    | Mounting bracket used when replacing existing area sensors (other than F3SN or F3WN) with the F3SJ. For front mounting.  Suitable for mounting hole pitch of 18 to 20 mm.           | total of 4 per set                                     | F39-LJ4    |
| c a        | Bracket for replacing<br>short-length F3SN   | Mounting bracket used when an F3SN with protective height of 300 mm or less is replaced by an F3SJ.   |  | F39-LJ5    |
|            | Space-saving mounting bracket  | Use these brackets to mount facing inward.<br>Length is 12 mm shorter than the standard<br>F39-LJ1 bracket.   | 2 for an emitter, 2 for a receiver, total of 4 per set | F39-LJ8    |
|            | Top/bottom bracket C<br>(mounting hole pitch 13 mm)                                    | Mounting bracket used when replacing existing area sensors having a mounting pitch of 13 mm with the F3SJ.  |  | F39-LJ11   |



## **Specifications**

## F3SJ-A\_\_\_\_P14/P30

| Model  | PNP Output  | F3SJ-AP14   | F3SJ-A                                      | P30   |  |  |
|--|-------------|---|---|---|--|--|
| Sensor type  |             | Type 4 safety light curtain   |   |   |  |  |
| Version  |             | Ver. 2  |   |   |  |  |
| Setting tool connection  |             | Connectable   | Connectable                                 |   |  |  |
| Safety category  |             | Safety purpose of category 4, 3, 2, 1, or B   | Safety purpose of category 4, 3, 2, 1, or B |   |  |  |
| Detection capability   |             | Opaque objects 14 mm in diameter  | Opaque ob                                   | jects 30 mm in diameter                               |  |  |
| Beam gap (P)   |             | 9 mm  | 25 mm                                       |   |  |  |
| Number of beams (n)  |             | 26 to 180   | 10 to 100                                   |   |  |  |
| Protective height (PH)   |             | 245 to 1,631 mm   | 245 to 2,49                                 | 95 mm   |  |  |
| Lens diameter  |             | Diameter 5 mm   |   |   |  |  |
| Operating range  |             | 0.2 to 9 m (protective height 1,640 mm max.), 0.2 to 7 m (protective Depending on the setting tool, the detection distance can be sho   |   |   |  |  |
| Response time<br>(under stable light incident                            | ON to OFF   | 1 set, 0245 to 983: 11 ms to 17.5 ms max.<br>1,055 or higher: 20 ms to 25 ms max.   | 1 set: 10 m                                 | ns to 17.5 ms max.                                    |  |  |
| condition)   | OFF to ON   | 1 set, 0245 to 983: 44 ms to 70 ms max.<br>1,055 or higher: 80 ms to 100 ms max.  | 1 set: 40 m                                 | ns to 70 ms max.                                      |  |  |
| Startup waiting time   |             | 2 s max. (2.2 s max. for series connection)   |   |   |  |  |
| Power supply voltage (Vs)  |             | 24 VDC±20% (ripple p-p10% max.)   |   |   |  |  |
| Current consumption (no load)  | Emitter     | To 50 beams: 76 mA max., 51 to 100 beams: 106 mA max., 101 to 150 beams: 130 mA max., 151 to 180 beams: 153 mA max., 201 to 234 beams: 165 mA max.  |   |   |  |  |
|  | Receiver    | To 50 beams: 68 mA max., 51 to 100 beams: 90 mA max., 101 to 150 beams: 111 mA max., 111 mA max., 151 to 180 beams: 128 mA max., 201 to 234 beams: 142 mA max.  |   |   |  |  |
| Light source (emitted wavelength   | h)          | Infrared LED (870 nm)   |   |   |  |  |
| Effective aperture angle (EAA)   |             | Based on IEC 61496-2.Within±2.5° for both emitter and receiver when the detection distance is 3 m or over   |   |   |  |  |
| Safety outputs (OSSD)  | PNP outputs | Two PNP transistor outputs, load current 300 mA max., residual allowable capacity load 2.2 µF, leak current 1 mA max.  (This can be different from traditional logic (0N/0FF) because saf   |   |   |  |  |
| Auxiliary output 1<br>(Non-safety output)                                | PNP outputs | One PNP transistor output, load current 300 mA max., residual volleak current 1 mA max.   | oltage 2 V m                                | ax. (except for voltage drop due to cable extension), |  |  |
| Auxiliary output 2<br>(Non-safety output. Function for<br>Basic System.) | PNP outputs | One PNP transistor output, load current 50 mA max., residual vol leak current 1 mA max.   | tage 2 V ma                                 | x. (except for voltage drop due to cable extension),  |  |  |
| External indicator output<br>(Non-safety output)                         |             | Available indicators Incandescent lamp: 24 VDC, 3 to 7 W LED lamp: Load current 10 mA to 300 mA max., leak current 1 mA max. (To use an external indicator, an F39-JJ3N universal indicator cable or an F39-A01P-PAC dedicated external indicator kit is required.  |   |   |  |  |
| Output operation mode  | Receiver    | Safety output 1, 2: ON when receiving light  Auxiliary output 1: Inverse of safety output signals (Operation mode can be changed with the setting tool.)  External indicator output 1: Inverse of safety output signals for a basic system (Operation mode can be changed with the setting tool.). ON when muting/override for a muting system (Operation mode can be changed with the setting tool.) |   |   |  |  |
|  | Emitter     | Auxiliary output 2: Turns ON when the point of 30,000 operating hours is reached (Operation mode can be changed with the settin tool.)  External indicator output 2: ON when lock-out for a basic system (Operation mode can be changed with the setting tool.)  ON when muting/override for a muting system (Operation mode can be changed with the setting tool.)                                   |   |   |  |  |



| Model                        | PNP output    | F3SJ-A P14 F3SJ-A P30  |                   |  |  |  |
|------------------------------|---------------|--|-------------------|--|--|--|
| Input voltage                | PNP output    | Test input, interlock selection input, reset input, and muting input are all ON voltage: 9 to 24 V (vs) (sink current: 3 mA max.), OFF voltage: 0 to 1.5 V, or open External device monitoring input ON voltage: 9 to 24 V (vs) (sink current: 5 mA max.), OFF voltage: 0 to 1.5 V, or open  |                   |  |  |  |
| Indicator                    | Emitter       | Light intensity level indicators (green LED x 2, orange LED x 3): ON based on the light intensity Error mode indicators (red LED x 3): Blink to indicate error details Power indicator (green LED x 1): ON while power is on Interlock indicator (yellow LED x 1): ON while under interlock, blinks at lockout. External device monitoring indicator (muting input 1 indicator), Blanking/test indicator (muting input 2 indicator) ON/flash according to function   | (green LED x 2):  |  |  |  |
|                              | Receiver      | Light intensity level indicators (green LED x 2, orange LED x 3): ON based on the light intensity  Error mode indicators (red LED x 3): Blink to indicate error details  OFF output indicator (red LED x 1): ON when safety output is OFF, blinks at lockout.  ON output indicator (green LED x 1): ON while safety output is ON  Muting error indicator, Blanking /test indicator (green LED x 2): ON/flash according to function   |                   |  |  |  |
| Mutual interference prevent  | tion function | Interference light prevention algorithm, sensing distance change function  |                   |  |  |  |
| Series connection            |               | Time division emission by series connection  Number of connections: up to 4 sets (F3SJ-A only) F3SJ-E, F3SJ-B and F3SJ-TS cannot be connected.  Total number of beams: up to 400 beams  Maximum cable length for 2 sets: no longer than 15 m   |                   |  |  |  |
| Test function                |               | Self test (at power-ON and at power distribution) External test (emission stop function by test input)   |                   |  |  |  |
| Safety-related functions     |               | Start interlock, restart interlock (Must be set with a setting tool when the muting function is used.) External device monitor Muting (Lamp burnout detection, override function included. F39-CN6 key cap for muting is required.) Fixed blanking (must be set by a setting tool) Floating blanking (must be set by a setting tool)   |                   |  |  |  |
| Connection method            |               | Connector method (M12, 8-pin)  |                   |  |  |  |
| Protection circuit           |               | Output short-circuit protection, and power supply reverse polarity protection  |                   |  |  |  |
| Ambient temperature          |               | Operating: -10 to 55°C (no icing), Storage: -30 to 70°C  |                   |  |  |  |
| Ambient humidity             |               | Operating: 35% to 85% (no condensation), Storage: 35% to 95%   |                   |  |  |  |
| Operating ambient light into | ensity        | Incandescent lamp: receiving-surface light intensity of 3,000 lx max., Sunlight: receiving-surface light intensity of  | of 10,000 lx max. |  |  |  |
| Insulation resistance        |               | 20 MΩ min. (at 500 VDC)  |                   |  |  |  |
| Withstand voltage            |               | 1,000 VAC 50/60 Hz, 1 min  |                   |  |  |  |
| Degree of protection         |               | IP65 (IEC 60529)   |                   |  |  |  |
| Vibration resistance         |               | Malfunction: 10 to 55 Hz, Multiple amplitude of 0.7 mm, 20 sweeps in X, Y, and Z directions  |                   |  |  |  |
| Shock resistance             |               | Malfunction: 100 m/s <sup>2</sup> , 1,000 times each in X, Y, and Z directions   |                   |  |  |  |
| Material                     |               | Casing (including metal parts on both ends): Aluminum, zinc die-cast Cap: ABS resin, Optical cover: PMMA resin (acrylic), Cable: Oil resistant PVC   |                   |  |  |  |
| Weight (packaged)            |               | Calculate using the following expressions: (1) For F3SJ-A14, weight (g) = (protective height) x 1.7 + $\alpha$ (2) F3SJ-A0 weight (g) = (protective height) x 1.5 + $\alpha$ . The values for $\alpha$ are as follows: Protected height 245 to 596 mm: = 1,100 protected height 1,660 to 2,180 mm: = 2,400 Protected height 600 to 1,130 mm: = 1,500 protected height 2,195 to 2,500 mm: = 2,600 Protected height 1,136 to 1,658 mm: = 2,000   |                   |  |  |  |
| Accessories                  |               | Test rod (*1), instruction manual, standard mounting bracket (F39-LJ1 bracket for top/bottom mounting), mount (intermediate) (*2), error mode label, User's Manual (CD-ROM)  *1. The F3SJ-Al=\( \) \( \) \( \) \( \) 55 is not included.  *2. Number of intermediate brackets depends on protective height of F3SJ.  For protective height from 600 to 1,130 mm: 1 set for each of the emitter and receiver is included For protective height from 1,136 to 1,658 mm: 2 sets for each of the emitter and receiver are included For protective height from 1,660 to 2,180 mm: 3 sets for each of the emitter and receiver are included For protective height from 2,195 to 2,500 mm: 4 sets for each of the emitter and receiver are included | ing brackets      |  |  |  |
| Applicable standards         |               | IEC 61496-1, EN 61496-1 UL 61496-1, Type 4 ESPE (Electro-Sensitive Protective Equipment) IEC 61496-2, CLC/TS 61496-2, UL 61496-2, Type 4 AOPD (Active Opto-electronic Protective Devices) IEC 61508-1 to -3, EN 61508-1 to -3 SLI3 IEC 13849-1: 2006, EN ISO 13849-1: 2008 (PLe, Cat.4) UL 508, UL 1998, CAN/CSA C22.2 No.14, CAN/CSA C22.2 No.0.8   |                   |  |  |  |

#### **Response Time**

| Model           | Protected Height (mm) | Number of Beams | Response time ms (ON to OFF) | Response time ms (OFF to ON) |
|-----------------|-----------------------|-----------------|------------------------------|------------------------------|
| F3SJ-A14 Series | 245 to 263            | 26 to 28        | 11                           | 44                           |
|                 | 281 to 389            | 30 to 42        | 12                           | 48                           |
|                 | 407 to 497            | 44 to 54        | 13                           | 52                           |
|                 | 515 to 605            | 56 to 66        | 14                           | 56                           |
|                 | 623 to 731            | 68 to 80        | 15                           | 60                           |
|                 | 767 to 983            | 84 to 108       | 17.5                         | 70                           |
|                 | 1,055 to 1,271        | 116 to 140      | 20                           | 80                           |
|                 | 1,343 to 1,559        | 148 to 172      | 22.5                         | 90                           |
|                 | 1,631                 | 180             | 25                           | 100                          |
| F3SJ-A30 Series | 245 to 395            | 10 to 16        | 10                           | 40                           |
|                 | 420 to 720            | 17 to 29        | 11                           | 44                           |
|                 | 745 to 1,045          | 30 to 42        | 12                           | 48                           |
|                 | 1,070 to 1,295        | 43 to 52        | 13                           | 52                           |
|                 | 1,395 to 1,620        | 56 to 65        | 14                           | 56                           |
|                 | 1,745 to 1,995        | 70 to 80        | 15                           | 60                           |
|                 | 2,120 to 2,495        | 85 to 100       | 17.5                         | 70                           |

Note: Use the following expressions for series connection.

For 2-set series connection:

Response time (0N to 0FF): Response time of the 1st unit + Response time of the 2nd unit - 1 (ms), Response time (0FF to 0N): Response time calculated by the above x 4 (ms)

 For 3-set series connection: Response time (ON to OFF):

Response time of the 1st unit + Response time of the 2nd unit + Response time of 3rd unit - 5 (ms), Response time (0FF to 0N): Response time calculated by the above x 5 (ms) For models with the "-TS" suffix, multiply the response time obtained by the above x 5 (ms), or use 200 ms, whichever is less.)

- For 4-set series connection:

Response time (ON to OFF): Response time of the 1st unit + Response time of the 2nd unit + Response time of the 3rd unit + Response time of the 4th unit - 8 (ms) Response time (OFF to ON): Response time calculated by the above x 5 (ms)

#### **Cable Extension Length**

Total cable extension length must be no greater than the lengths described below.

When the F3SJ and an external power supply are directly connected, or when the F3SJ is connected to a G9SA-300-SC.

| Condition  | 1 set | 2 sets | 3 sets | 4 sets |
|--|-------|--------|--------|--------|
| Using incandescent lamp for auxiliary output and external indicator output | 45 m  | 40 m   | 30 m   | 20 m   |
| Not using incandescent lamp  | 100 m | 60 m   | 45 m   | 30 m   |

#### When connected to the F3SP-B1P

| Condition   | 1 set | 2 sets | 3 sets | 4 sets |
|---|-------|--------|--------|--------|
| Using incandescent lamp for external indicator output 2 | 40 m  | 30 m   | 25 m   | 20 m   |
| Using incandescent lamp for external indicator output 1 | 60 m  | 45 m   | 30 m   | 20 m   |
| Using incandescent lamp for auxiliary output 1          |       |        |        |        |
| Not using incandescent lamp                             | 100 m | 60 m   | 45 m   | 30 m   |

Note: Keep the cable length within the rated length. Failure to do so is dangerous as it may prevent safety functions from operating normally.

#### **Accessories**

#### **Control Unit**

| Item                  | Model              | F3SP-B1P  |
|-----------------------|--------------------|---|
| Applicable sensor     |                    | F3SJ-B/A (Only for PNP output type) <sup>*1</sup>         |
| Power supply voltage  |                    | 24 VDC±10%  |
| Power consumption     |                    | DC1.7 W max. (not including sensor's current consumption) |
| Operation time        |                    | 100 ms max. (not including sensor's response time)        |
| Response time         |                    | 10 ms max. (not including sensor's response time)         |
| Relay output          | Number of contacts | 3N0+1NC   |
|                       | Rated load         | 250 VAC 5 A (cos $\phi$ = 1), 30 VDC 5 A L/R = 0 ms       |
|                       | Rated current      | 5 A   |
| Connection type       | Between sensors    | M12 connector (8-pin)                                     |
|                       | Others             | Terminal block  |
| Weight (packed state) |                    | Approx. 280 g   |
| Accessories           |                    | Instruction manual  |

 $<sup>^{\</sup>star 1}~$  NPN output type cannot be connected. Also, the system cannot be used as a muting system.

#### **Laser Pointer**

| Item                          | F39-PTJ   |
|-------------------------------|---|
| Applicable sensor             | F3SJ Series   |
| Power supply voltage          | 4.65 or 4.5 VDC   |
| Battery                       | Three button batteries (SR44 or LR44)   |
| Battery life*1                | SR44: 10 hours of continuous operation, LR44: 6 hours of continuous operation                     |
| Light source                  | Red semiconductor laser (wavelength: 650 nm, 1 mW max. JIS class 2, EN/IEC class 2, FDA class II) |
| Spot diameter (typical value) | 6.5 mm at 10 m  |
| Ambient temperature           | Operating: 0 to 40°C Storage: -15 to 60°C (with no icing or condensation)                         |
| Ambient humidity              | Operating and storage: 35% to 85% (with no condensation)  |
| Material                      | Laser module case: aluminum Mounting bracket: aluminum and stainless                              |
| Weight                        | Approx. 220 g (packed)  |
| Accessories                   | Laser safety standard labels (EN: 1, FDA: 3) Button batteries (SR44: 3), instruction manual       |

<sup>\*1</sup> Battery life varies depending on a battery used.

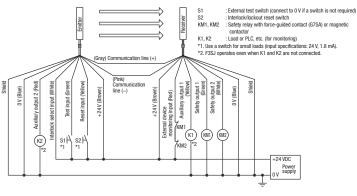


#### Connections

#### **Basic Wiring Diagram**

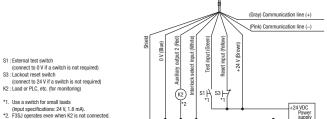
#### **PNP Output**

Wiring when using manual reset mode, external device monitoring.



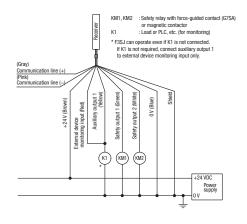
#### Wiring for auto reset mode

The auto reset mode will be enabled when the emitter is wired as shown below.



#### Wiring when the external device monitoring function will not be used

- . Use a setting tool to set the external device monitoring function to "Disabled."
- When using an auxiliary output 1 that has not been changed (output operation mode is "control output data," and inverse of safety output signals is "Enabled), the external device monitoring function will be disabled when auxiliary output 1 and the external device monitoring input are connected as shown below.

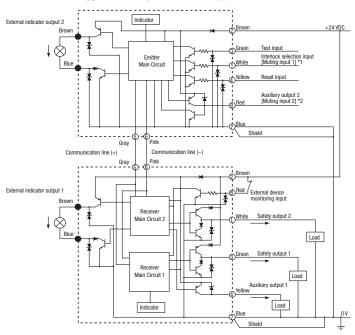


#### Input/Output Circuit Diagram

#### **Entire Circuit Diagram**

#### **PNP Output**

The numbers in circles indicate the connectors' pin numbers. The black circles indicate connectors for series connection. The words in brackets ([]) indicate the signal name for muting system.



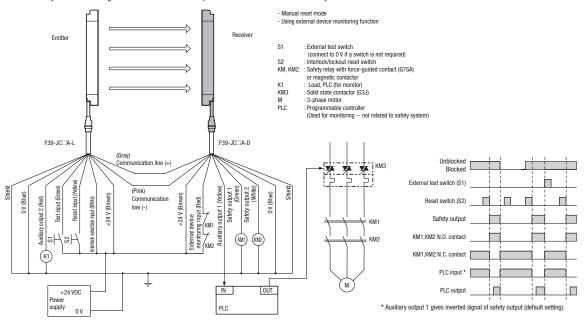
<sup>\*1</sup> Open or muting input 1 for models with the "-TS" suffix.
\*2 Open or muting input 2 for models with the "-TS" suffix.



#### **Connection Circuit Examples**

# Wiring for single F3SJ application (Category 4 acc. EN 954-1 and PLe acc. EN ISO 13849-1) PNP Output

· Use of relay contact welding detection and interlock is possible without a controller or relay unit







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|   | 133534 |                         | Buy on EAN   |
| Proximity Sensor, Inductive dia.4mm Flush 1.2mm<br>PNP NA 3h 5m Cable   | 382448 | E2E-C04S12-WC-<br>B1 5M | Buy on EAN   |
|   | 360316 | EE-SX913P-R 3M          | Buy on EAN   |
| Temperature and Process Ctrl.Temp, Ent.Univ, Sal.SSR, Sal.relay, 4sal.aux, HBA, 4Ent Evt, 24Vdc / Vac, Screw, 48x96 | 385327 | E5EC-<br>TQR4D5M-010    | Buy on EAN   |
| Safety relay unit, 3PST-NO, 3 A, 120 VAC  | 150737 |                         | Buy on EAN   |
| Industrial Relays, DPDT 10A Indic. LED-button<br>mechanical test  | 376766 |                         | Buy on EAN   |