

NEW Compatible with Up to Control Category 4, PLe and SIL3

Non-Contact Safety Door Switch

SG-P SERIES



At-a-Glance Confirmation of Open / Close Conditions of All Equipment Doors

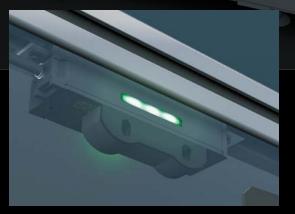
For frame-less doors Compact type SG-P1010-□ / SG-P2010-□

> For framed doors Visible type SG-P1020-□ / SG-P2020-□

Large and Bright Indicators Show the Open / Close Conditions of All Equipment Doors.

When one of the safety switches connected in series enters a non-detection state, the indicators of all other safety switches flash in green to notify the operator.

The indicator of the safety switch on the closed door flashes to notify the unsafe condition.



The indicators of the safety switches on all other closed doors that are interlocked with the open door flash in green to notify the unsafe condition.

The indicator of the safety switch on the open door lights in bright red.



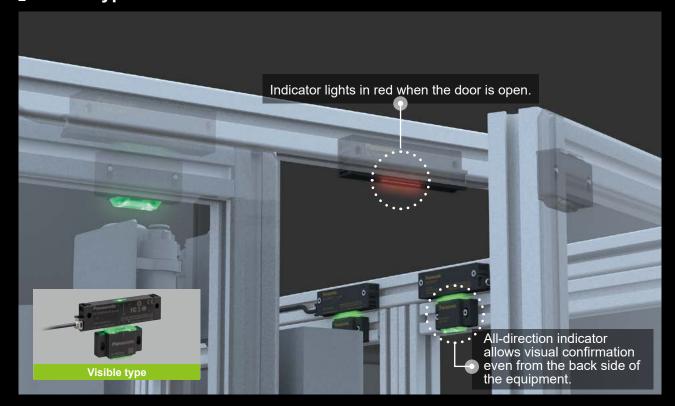
The indicator of the safety switch on the open door lights in bright red so that the operator can recognize at a glance which equipment door is open.

Two Types to Choose from





For doors with aluminum frames **Visible type**



For doors without aluminum frames

Compact type



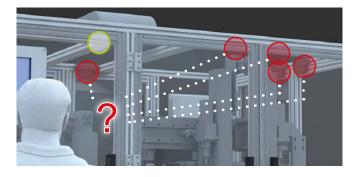
Flashing Function Notifies Unsafe Condition

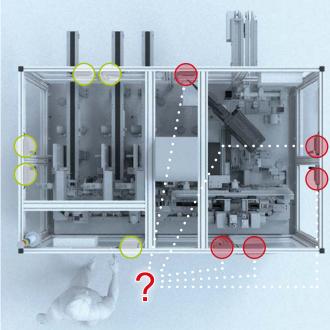
When a door is intentionally kept open, the indicator of the safety switch on that door changes to red and the indicators of the safety switches on all other doors flash in green. The operator can recognize immediately the equipment status and which door is open.

Before Conventional system

When one of the doors was kept open, the indicators of all other interlocked safety switches turned off so there was no way of knowing which door was open without checking each door.

When the safety switch was installed on the inner side of the door, the indicator of the safety switch was not visible from the outside of the equipment area in some cases.



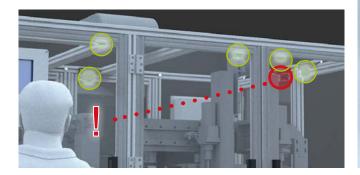


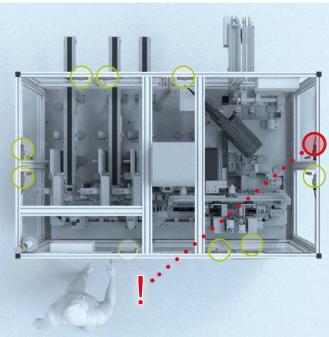
Industry's First

* As of September 2020, in-company survey

After SG-P series

The indicator of the safety switch on the open door changes to red and the indicators on all other doors flash in green. The operator can recognize immediately the equipment status and which door is open.





Actuator with Industry's First* "Indicator Light Pass-through System"

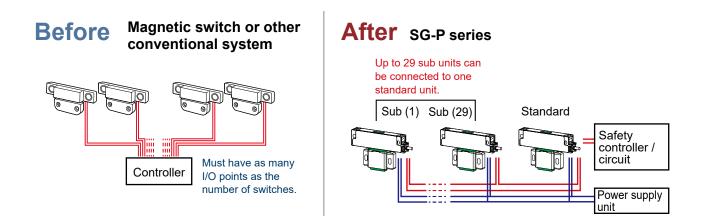
The visible type actuator allows the light from the switch body to pass through so that the indicator light is visible from the actuator side. This ensures high visibility of the safety switches installed on doors with aluminum frames. Panasonic O C C O C C O C C O C C O C C O C C O C C O

* Industry's first safety door switches with this function as of October 2020, in-company survey.

Master-Slave (Standard / Sub) System for Reduced Wiring Serial Connection of Up to 30 Units without Dedicated Controller

The **SG-P** series standard units, which are used as master units, can output safety signals all at once (OSSD1 / OSSD2).

The sub units used as slave units minimize the wiring for a cascade connection. There is no need to purchase a dedicated controller. The presently used safety controller / circuit can be connected directly. Up to 30 units can be connected, thus contributing to wire-saving.



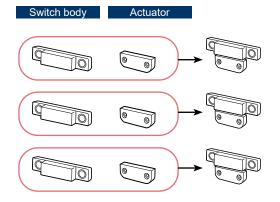
No Cumbersome Manual Pairing Necessary before Installation

* High-code models (**SG-P20□-M-**□, **SG-P20□-S**) only

During the initial setting, bring the switch body close to the actuator and turn on the power to let the safety switch detect the actuator for 3 seconds. This simple procedure completes the pairing. In a cascade connection, pairing can be achieved all at once by simply turning on the power. This reduces the man-hours required for starting up the equipment. * Low-code models (SG-P10_-M-_, SG-P10_-S) do not require pairing.

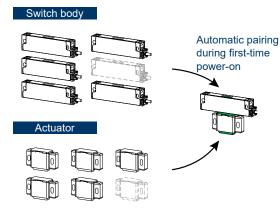
Before Conventional system

Each switch unit must be paired with one actuator during installation, and they must be managed as a set.



After SG-P series

Any safety switch unit can be paired with a selected actuator for initial pairing.

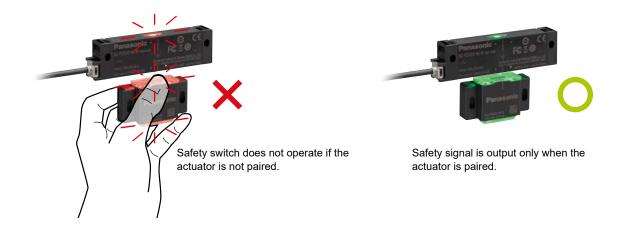


Helps Prevent Intentional Deactivation of Safety Function

The ISO 14119:2013* international standard stipulates a design requirement that deactivations of safety functions shall be minimized.

Export of equipment sometimes requires to meet this standard. The **SG-P** series products are available with two different coding levels: High-code models and Low-code models. The High-code models are compatible with ISO 14119* coding level (**high level coded actuators**) and prevent intentional deactivation of their safety function.

* ISO 14119: Safety of machinery - Interlocking devices associated with guards - Principles for design and selection



Installation example

The **SG-P** series offers visible type and compact type safety door switch models for installation on various types of doors. The visible type and compact type models can be used together and interlocked so that the most suitable models can be selected according to the types of equipment doors.

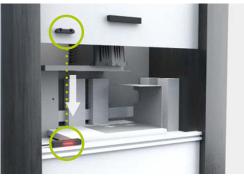
Even if there are many equipment doors, up to 30 units can be connected in series and the standard unit used as a master unit can output safety signals from all doors at once.





Sliding door on electronic parts inspection machine





Maintenance doors on large equipment



Lifting door for laser marker

NEW Maintenance Actuators SG-PK-M Series (Sold separately) Simple and Easy Maintenance!



Overall Individual maintenance type maintenance type SG-PK-M1 SG-PK-M2

Renewal of maintenance procedures by eliminating the use of potentially dangerous deactivation tool (dummy or spare key)

Desired maintenance mode can be easy constructed by mounting the coded actuator to the switch body.

The **SG-PK-M** series realizes safe equipment startups as well as easy maintenance, thus resolving the conventional issues of high level coded safety door switches.



One-touch Installation and Easy Construction of **Maintenance Mode**

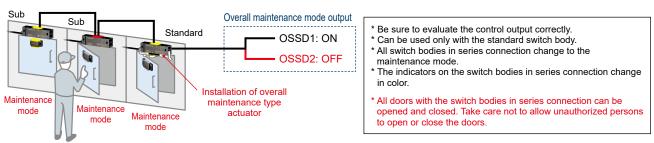
Mounting the maintenance actuator to the SG-P unit enables the control output function

for the maintenance mode. The following two types of maintenance

actuators are available: Overall maintenance type (SG-PK-M1) Individual maintenance type (SG-PK-M2)

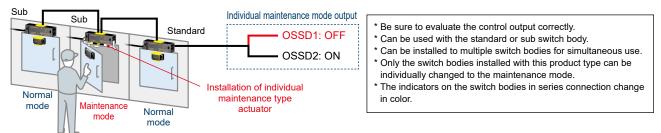
<Overall maintenance type (SG-PK-M1)>

All doors can be opened and closed. This product type can be used for equipment startups.



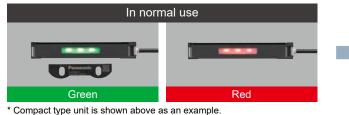
<Individual maintenance type (SG-PK-M2)>

Only specific doors can be opened and closed. This product type can enhance the safety of maintenance work.



Large and Bright Indicator for the Notification of Maintenance Mode Status to Workers

When the SG-P unit is mounted with the maintenance actuator, the large indicator lights in yellow. The workers can readily recognize that the equipment is in maintenance.





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Introduction to Safety Devices

Safety control unit

SF-C21

- No programming knowledge is required. Operation is as simple as selecting a desired logic from the preset logics.
- OFF delay time can be set.
- Logic can be customized according to applications.
- * Exclusively for PNP semiconductor inputs or contact inputs. * Cannot be used together with the SF-C21 in the case SG-PK-M
- series maintenance actuators are used.



Safety door switch with solenoid interlock

SG-B1 series

- Ultra-slim safety door switch with solenoid interlock
- Equipped with 5 built-in contact points



Safety door switch

SG-A1 series

- World's slimmest-class* safety door switch
- Equipped with three built-in contact points
- All models are a cable pull-through type.
- Actuator is selectable according to door shape and application.

* As of April 2017, in-company survey.

Ultra-slim safety light curtain

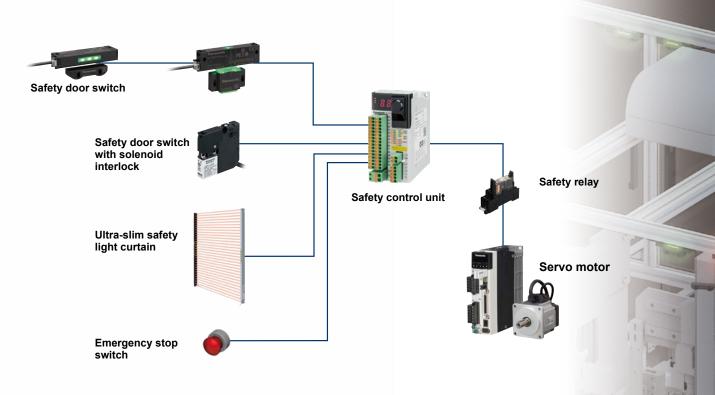
SF4C series

- Ultra-slim 13 mm 0.512 in light curtain with wide coverage
- Helps decrease safety distances and facility sizes
- Large, versatile app indicator

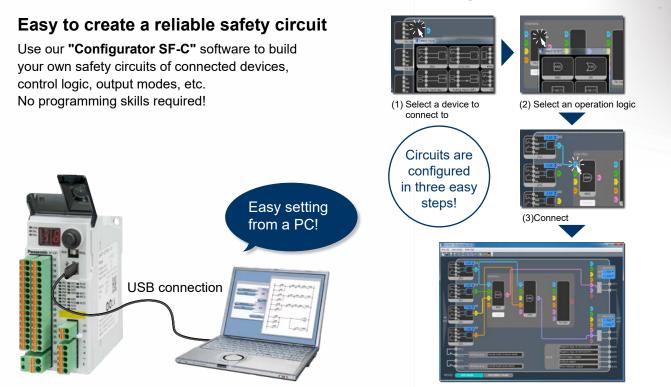




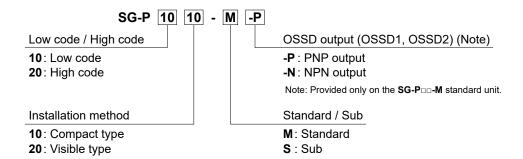
Example of System Configuration



Application-based customization is easy



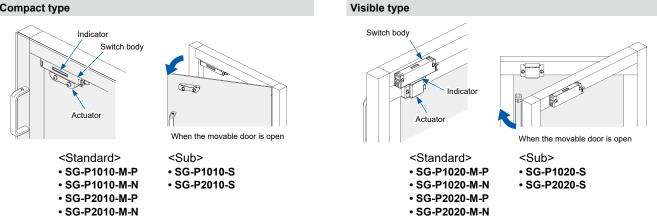
Model No.



Product type

Select either the Compact type or Visible type depending on how the door opens or how it is installed. Mount the switch body of this device on a machine unit or on a guard and mount the actuator on the door of a movable member.

Compact type



Notes: 1) Sub units cannot be used alone. When using a single unit, use a standard unit. When using multiple units in series connection, combine a standard unit with sub units

2) The switch body must be connected to a power supply unit and a safety device such as a safety controller. Power supply unit and safety controller must be purchased separately.

ORDER GUIDE

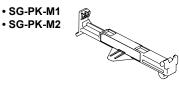
Coding level	Type (N	lote)	Model No.	Control output (OSSD1, OSSD2)	Cable length	
		Standard	SG-P1010-M-P	PNP open-collector transistor, 2 outputs	5 m 16.404 ft	
	Compact type	Standard	SG-P1010-M-N	NPN open-collector transistor, 2 outputs		
		Sub	SG-P1010-S		3 m 9.843 ft	
Low code	Visible type	0	SG-P1020-M-P	PNP open-collector transistor, 2 outputs	E == 40,404.#	
		Standard	SG-P1020-M-N	NPN open-collector transistor, 2 outputs	5 m 16.404 ft	
		Sub	SG-P1020-S		3 m 9.843 ft	
	Compact type	0	SG-P2010-M-P	PNP open-collector transistor, 2 outputs	5 40 404 6	
		Standard	SG-P2010-M-N	NPN open-collector transistor, 2 outputs	5 m 16.404 ft	
		Sub	SG-P2010-S		3 m 9.843 ft	
High code		0	SG-P2020-M-P	PNP open-collector transistor, 2 outputs	5 40 404 5	
	Visible type	Standard	SG-P2020-M-N	NPN open-collector transistor, 2 outputs	5 m 16.404 ft	
		Sub	SG-P2020-S	_	3 m 9.843 ft	

Note: Sub units cannot be used alone. When using a single unit, use a standard unit. When using multiple units in series connection, combine a standard unit with sub units.

OPTIONS

	Model No.	
Maintenance actuator	Overall maintenance type	SG-PK-M1
	Individual maintenance type	SG-PK-M2

Maintenance actuator



SPECIFICATIONS

\swarrow	Type (Note 2)	Standard / PNP output	Standard / NPN output	Sub						
ltem	Model No.	SG-P□-M-P	SG-P□-M-N	SG-P□-S						
e v	International standards	ISO 13849-1 (Category 4, PLe	ISO 13849-1 (Category 4, PLe), IEC 61508-1 to 7 (SIL3), IEC 62061 (SIL3), IEC 60947-5-3, ISO 14119							
Applicable standards	Japan	JIS B 9705-1, JIS C 0508 1 to 7, JIS B 9961, JIS C 8201-5-2, JIS B 9710								
and	Europe	EN ISO 13849-1 (Category 4, PLe), EN ISO 14119, EN 60947-5-3, EN 300 3	330, EN IEC 63000, EN 301 489-1						
st A	North America		CAN/CSA C22.2 No.14, UL508							
	cable standards and cations	CE Marking (Machinery Directive, RE Dir Canada), the U.S.'s radio regulations (FCC),	ective, RoHS Directive), TÜV SÜD certificati Canada's radio regulations (ICES-003, RSS							
Opera	ting distance Front / Side	Sao (OFF \rightarrow	ON): 5 mm 0.197 in, Sar (ON \rightarrow OFF): 15	mm 0.591 in						
Powe	r supply voltage		24V DC ⁺¹⁰ ₋₂₀ % Ripple P-P 10 % or less							
Curre	nt consumption	30 mA	or less	20 mA or less						
		PNP open-collector transistor 2 outputs • Maximum source current:100 mA	NPN open-collector transistor 2 outputs • Maximum sink current:100 mA							
Control output (OSSD1, OSSD2) (Note 3)		output and 0 V, NPN output: between cor • Residual voltage: 2 V or less (source curr voltage drop due to cable)	 Leakage current: 0.2 mA or less (including power OFF state) Maximum load capacity: 0.47 μF 							
	Operation mode Output operation)	 When the actuator is detected (safe state When the actuator is not detected (unsafe When the switch body (sub) does not det 	e state or lockout state): OFF							
	Protection circuit Short-circuit protection)	Incorpo	prated							
Respo	onse time	 For single unit: ON→OFF 100 ms or less, OFF→ON 100 ms or less For multiple units: Time for single unit + 5 ms × (number of connected units - 1) 								
Checl	k input and output	Dedicated communication line between the switch body (standard) and the switch body (sub) (Note 4) *It is not for external input and output. (voltage range 0 V to 5 V DC)								
Numbe	er of units connected in series	30 units or less (standard 1 unit, sub 29 units)								
Pollut	ion degree		3							
ଞ P	Protection		IP65 (IEC)							
v v v	mbient temperature	-10 to +55 °C +14 to +131 °F (No	dew condensation or icing allowed), Stora	age: -25 to +65 °C -13 to +149 °F						
A	mbient humidity		30 to 85 % RH, Storage: 30 to 95 % RH							
v la	oltage withstandability	1,000 V AC for one minu	ite between all supply terminals connected	together and enclosure						
Environmental	nsulation resistance	20 MΩ or more, with 500 V DC	megger between all supply terminals con	nected together and enclosure						
vio V	/ibration resistance	10 to 55Hz, 1 m	m double amplitude, 2 hours each in X, Y,	and Z directions						
ы́s	hock resistance	300 m/s ² (approx. 30 G), 3 times each in X, Y, and Z direction								
Mater	ial	Switch body: PBT, PC, SUS (stainless steel), EPDM Actuator: PBT, PC (Only visible type)								
Cable		6–core cabtyre cable	e, 5 m 16.404 ft long	4-core cabtyre cable, 3 m 9.843 ft long						
Conne	ected cable length		When using only one unit: Maximum cable length of 20 m 65.617 ft between switch body and power supply unit When connecting multiple units in series: Maximum total cable length of 100 m 328.084 ft, maximum cable length of 20 m 65.617 ft between two adjacent units							
Weigł	nt	Compact type Switch body (stand Visible type Switch body (stand	ard): 180 g approx., Switch body (sub): 110 ard): 180 g approx., Switch body (sub): 120	0 g approx., Actuator: 10 g approx. 0 g approx., Actuator : 20 g approx.						
Gross	weight	Compact type Visible type	SG-P 10-M-:: 260 g approx., SG-P 10-S SG-P 20-M-:: 270 g approx., SG-P 20-S							

Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were ambient temperature +23°C +73°F. 2) Sub units cannot be used alone. When using a single unit, use a standard unit. When using multiple units in series connection, combine a standard unit with sub units.

Compact type

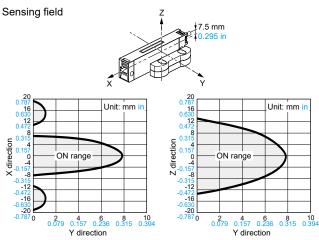
3) Provided only on the standard unit.

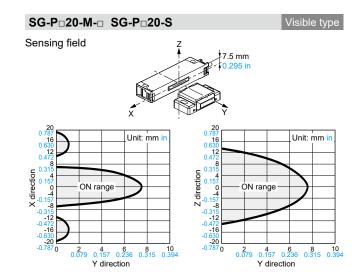
4) When using the device as a single unit, connect the check input with the check output.

■Transponder specifications Operating frequency: 125 kHz Max. transmitter output: 3.33 µW

SENSING CHARACTERISTICS (TYPICAL)

SG-P-10-M-- SG-P-10-S





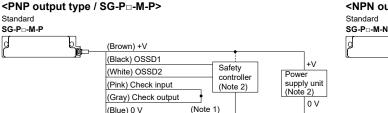
* Be sure to confirm proper operation in the actual installation environment.

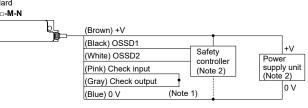
WIRING DIAGRAMS

Using only one unit

d

<NPN output type / SG-P□-M-N>





* Sub unit **SG-P-S** cannot be used alone.

Notes: 1) Connect the check input line (pink) with the check output line (gray).

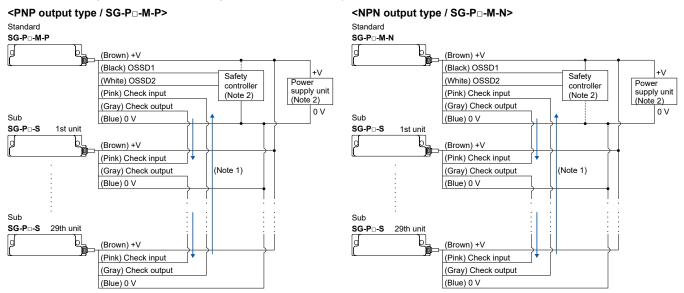
2) The switch body must be connected to a power supply unit and a safety device such as a safety controller. Power supply unit and safety controller must be purchased separately.

· Maximum cable length

The cable connected between the switch body and power supply unit must not exceed 20 m 65.617 ft.

Using multiple units in series connection

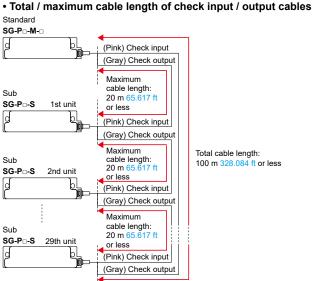
One standard unit (SG-P --- M-P / SG-P -- M-N) can be connected with up to 29 SG-P --- S sub units in series.

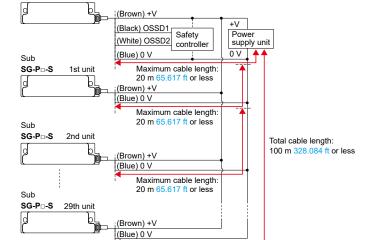


- Notes: 1) For connecting multiple units in series connection connect the check output line (gray) with the check input line (pink) of the SG-Pu-S sub unit connected next. Connect the check output line (gray) of the SG-PD-S sub unit connected at the end with the check input line (pink) of the standard unit (SG-PD-M-P / SG-P -M-N) placed at the beginning.
 - 2) The switch body must be connected to a power supply unit and a safety device such as a safety controller. Power supply unit and safety controller must be purchased separately.

Standard

SG-Po-M-o





· Total / maximum cable length of power cables and OSSD cables

The total length of the cables connected from the SG-P -Mstandard unit to the last SG-P -S sub unit (farthest from the standard unit) must not exceed 100 m 328.084 ft. The cable connected from each switch body to the adjacent switch body must not exceed 20 m 65.617 ft.

The total length of the cables between the switch bodies and power supply unit and the total length of the cables between the switch bodies and safety control unit must not exceed 100 m 328.084 ft each. The cable connected from each switch body to the adjacent switch body must not exceed 20 m 65.617 ft.

PRECAUTIONS FOR PROPER USE

 This catalog is a guide to select a suitable product. Be sure to read instruction manual attached to the product prior to its use.



The customer is responsible for ensuring the safety of the entire system and the compliance with the standards applicable in the country / region of use.

Machine designer, installer, employer and operator

· The machine designer, installer, employer and operator are solely responsible to ensure that all applicable legal requirements relating to the installation and the use in any application are satisfied and all instructions for installation and maintenance contained in the instruction manual are followed.



Whether this device functions as intended to and systems including this device comply with safety regulations depends on the appropriateness of the application, installation, maintenance and operation. The machine designer, installer, employer and operator are solely responsible for these items.

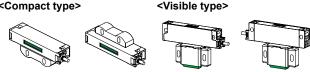
- · This product has been developed / produced for industrial use only. This product is an extremely low power radio device and complies with the Japanese Radio Act. There is no need to obtain
- a radio station license to use the product in Japan. Do not use this product near equipment that emits strong
- electromagnetic waves.
- If the power supply used for this device is shared by other devices, the device may be affected by noise emitted from other devices. Do not share the power supply used for this device with other devices
- · The switch body of this product must be connected to a power supply unit and a safety device such as a safety controller. Power supply unit and safety controller must be purchased separately.
- The power supply unit used for this device must satisfy the following requirements.
- The power supply unit must be certified for use in your region.
 The power supply unit must have the rated output voltage of 24 V DC ¹⁰/₂₀ % and the ripple (P-P) of 10 % or less.
 The power supply with SELV (Secondary Extra Low Voltage) or PELV (Protective Extra Low Voltage) that comply with the RE Directive must be used (When CE Marking is required).
- used. (When CE Marking is required)
 The power supply must comply with Class 2 defined by UL508 or satisfy the output characteristics requirements of the limited voltage and current circuit
- The power supply unit must have reinforced insulation or double insulation between the primary circuit and secondary circuit
- When using a commercial switching regulator, the frame ground (F.G.) terminal must be connected to ground.
- The power supply unit must have an output holding time of 20 ms or more. · If surges occur, take countermeasures such as connecting a surge
- absorber to the source of the surges.

Mounting

- Do not install the switch body of this device on a movable door.
- Mount the switch body carefully so that it does not come in contact with the movable door.
- Mount the switch body in a location where it cannot be reached or it is hidden so that it cannot be easily disabled. Or, mount the switch body in such a way that it cannot be removed with ordinary tools.

Correct mounting orientation

<Compact type>



Incorrect mounting orientation

<Compact type>



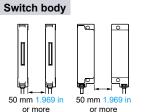


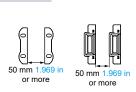


Mutual Interference

When multiple devices are installed next to one another, mutual interference may occur and cause malfunctioning. When using them next to one another, provide a distance between one another as shown below.

Actuator



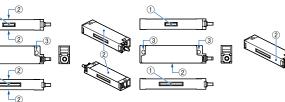


Part description

Switch body

<Compact type>





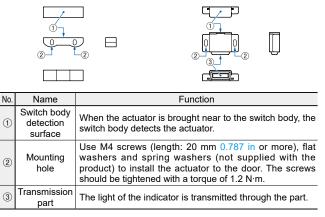
No.	Name		Function						
		Lights green	When the actuator is detected						
		Lights red	When the actuator is not detected						
		Blinks red	 Lockout state, error occurrence When the teaching sequence was incorrect (only when using high- code models SG-P20) 						
1	Indicator	Blinks green	When other switch bodies (standard unit, sub unit) in series connection do not detect actuators, when error occurs						
0		Lights yellow - (Simultaneously light green and red) (Note)	After the power supply is turned ON, during self-diagnosis						
		Alternately blinking red to yellow 	When an unpaired actuator is detected (only when using high- code models SG-P20 □-□)						
2	Actuator detection surface	When the actuator is brought near to the surface, the switch body detects the actuator.							
3	Mounting hole	Use M4 screws (length: 20 mm 0.787 in or more), flat washers and spring washers (not supplied with the product) to install the switch body to the equipment body or guard. The screws should be tightened with a torque of 1.2 N·m.							

Note: When you look at a lit LED on a visible type model through the actuator, the LED may sometimes appear green in some part and red in other part.

Actuator

<Compact type>





PRECAUTIONS FOR PROPER USE

About maintenance actuators (optional)



Using a maintenance actuator incorrectly can lead to an accident. Be sure to understand the operation of the system when using a maintenance actuator to use maintenance actuators correctly.

By directly mounting the maintenance actuator to the switch body while the door is open, it is possible to distinguish accidental opening of the door. Two types of maintenance actuators are available: overall maintenance type (SG-PK-M1) and individual maintenance type (SG-PK-M2 (Note)).

Note: In the case of the individual maintenance type SG-PK-M2, multiple units can be installed and used simultaneously.



Туре	Overall maintenance type	Individual maintenance type				
Model No.	SG-PK-M1	SG-PK-M2				
Ambient temperature	0 to +40 °C 0 to +104 °F (No dew condensation) Storage: -25 to +65 °C -13 to +149 °F					
Ambient humidity	35 to 85 % RH, storage: 35 to 85 % RH					
Vibration resistance	10 to 55Hz, 1 mm double amplitude, 2 hours each in X, Y, and Z directions					
Shock resistance	300 m/s² (30 G approx.), 3 times each in X, Y, and Z direction					
Material	POM (polyacetal)					
Weight	7 g approx.					

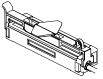
- Overall maintenance type (SG-PK-M1) can be used only on standard switch bodies.
- Individual maintenance type (SG-PK-M2) can be used on standard and sub switch bodies.
- · When maintenance actuators are used, redundant input monitoring (dual channel monitoring) of OSSD1 and OSSD2 for the SG-P series by a safety controller, etc. cannot be used.
- When using a maintenance actuator, be careful that the normal actuator will not be detected at the same time.
- Determine whether to use the normal mode or maintenance mode according to the system.

Installation

Installation on compact type unit

< Installation on top surface >

< Installation on bottom surface >





Installation on visible type unit

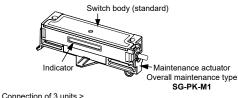


Output operation and indicator operation

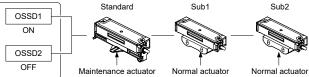
Operation differs between the overall maintenance type (SG-PK-M1) and individual maintenance type (SG-PK-M2). The output operation and indicator operation of the switch body when used with each maintenance actuator is as follows

When using overall maintenance type actuator (SG-PK-M1)

The SG-PK-M1 can only be used on standard switch bodies.



< Example: Connection of 3 units >



Only OSSD1 is ON

(maintenance mode) (normal mode) (normal mode) Note: Individual maintenance type (SG-PK-M2) cannot be used when overall

maintenance	type	IS	useu.	

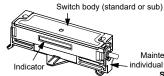
	S	Standar	d	Sub1			Sub2				
Туре	Actuator	Detection Status	Indicator	Actuator	Detection Status	Indicator	Actuator	Detection Status	Indicator	OSSD1	OSSD2
		Detection	Yellow		Detection	Yellow		Detection	Yellow	ON	OFF
Overall	Mainte- nance	Detection	Yellow	Normal	Detection	Yellow		Not detected	Red	ON	OFF
Mainte- nance		Detection	Yellow		Not detected	Red	Normal	Detection	Yellow	ON	OFF
		Not detected	Red		Detection	Blinks green		Detection	Blinks green	OFF	OFF
After 12 hours (Note 1)		Detection	Blinks yellow/ red		Detection	Blinks yellow/ red		Detection	Blinks yellow/ red	OFF	OFF

Notes: 1) Maintenance actuator can operate continuously for up to 12 hours. After 12 hours, OSSD1 turns OFF automatically and the indicator on the switch body blinks in yellow / red. To use the maintenance actuator again, detach the actuator and reinstall.

 The indicator on the switch body blinks in yellow or red to indicate one of the two modes. For details, see the Instruction Manual of the SG-P series

When using individual maintenance type actuator (SG-PK-M2)

The SG-PK-M2 can be used for standard and sub switch bodies.



Maintenance actuator individual maintenance type SG-PK-M2

< Example: Connection of 3 units, maintenance actuator used as Sub1 > Standard

Normal actuator

(normal mode)





Sub2

OSSD2 ON Only OSSD2 is ON.

OSSD1 OFF

> Maintenance actuator (maintenance mode) (normal mode)

	Standard			Sub1			Sub2				
Туре	Actuator	Detection Status	Indicator	Actuator	Detection Status	Indicator	Actuator	Detection Status	Indicator	OSSD1	OSSD2
		Detection	Yellow		Detection	Yellow		Detection	Yellow	OFF	ON
Indi- vidual Mainte-		Not detected	Red		Detection	Blinks yellow/ red		Detection	Blinks yellow/ red	OFF	OFF
nance	Normal	Detection	Blinks green	Mainte- nance	Not detected	Red	Normal	Detection	Blinks green	OFF	OFF
After 12 hours (Note)	6	Detection	Blinks yellow/ red		Detection	Blinks yellow/ red		Detection	Blinks yellow/ red	OFF	OFF

Note: Maintenance actuator can operate continuously for up to 12 hours. After 12 hours, OSSD2 turns OFF automatically and the indicator on the switch body blinks in yellow / red. To use the maintenance actuator again, detach the actuator and reinstall.

Compact type

Visible type

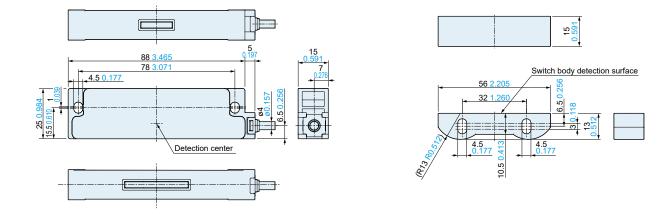
DIMENSIONS (Unit: mm in)

SG-PD10-M-D SG-PD10-S

Switch body

Actuator (accessory)

Actuator (accessory)



SG-PD20-M-D SG-PD20-S

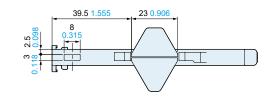
Switch body

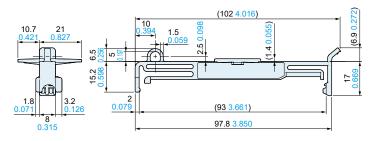
25

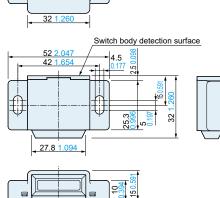
œ] — 32 1.260 5 .197 15 0.59 88 3.465 52 2.04 42 1.65 78 3.071 4.5 0.177 4.5 0.177 |25.3 27.8 1.094 E J

Detection center

SG-PK-M1 SG-PK-M2







Maintenance actuator (optional)

Disclaimer

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