



Machine Safety Made Simple

Achieve the Top Safety Standards

PLe

Category4

SIL3

Type4



**Locking
Type**



**Innovative Safety
Options for Any
Situation**



**Non-
Contact
Type**

Safety Interlock Switches

GS Series

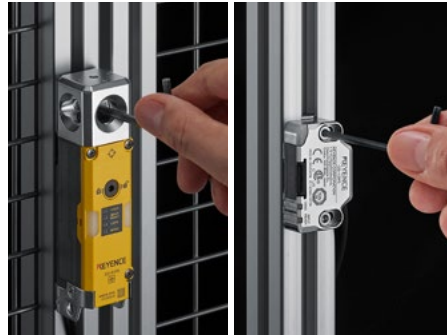
INTUITIVE DESIGN

- Compact Size
- Robust Construction
- Highly Visible Indicators



VERSATILE MOUNTING

- Flexible & Direct Installation
- Reliable & Consistent Alignment
- Dedicated Brackets



SEAMLESS SYSTEM INTEGRATION

- Built-in Cascading
- Additional I/O for Monitoring
- Simplified System Wiring



INTUITIVE DESIGN

Locking
Type



Non-Contact
Type



Two Unique Styles



Locking Type

Prevent unintended access to hazardous areas, and costly machine downtime, by locking these units during machine operation.

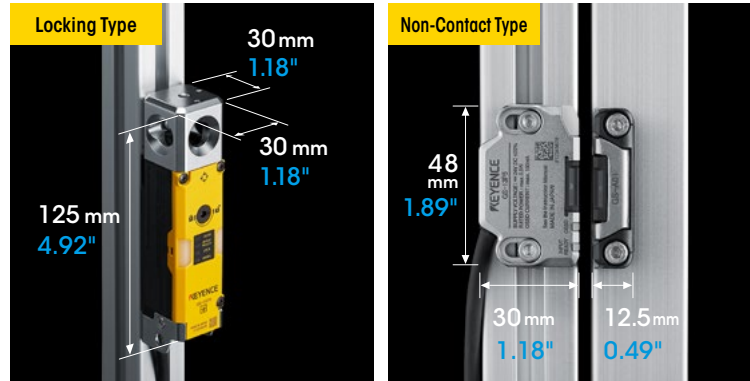


Non-Contact Type

Confirm all access points are closed during machine operation and trigger appropriate machine stoppage if any of them are opened.

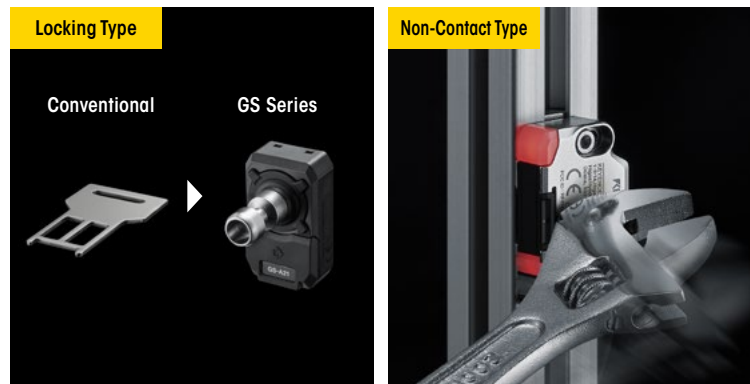
Compact Size

Both models feature small physical footprints to ensure they are able to be integrated into any machine. The unobtrusive designs help to increase mounting versatility and also prevent tampering or potential damage.



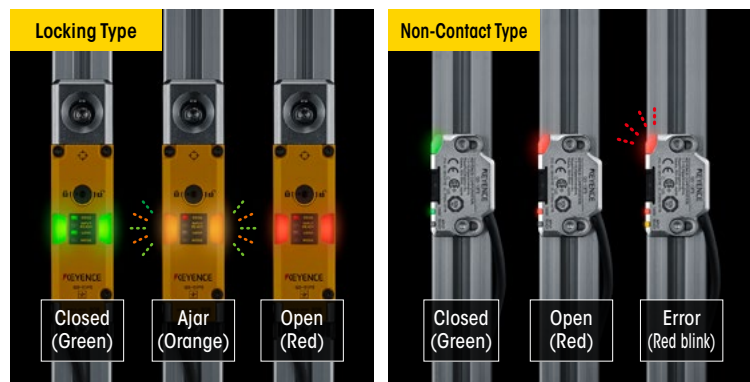
Robust Construction

The locking type ensures operators cannot forcibly enter hazardous areas by maintaining an impressive 2000N holding force when locked. The non-contact type features a durable metal housing that ensures lasting operation even when exposed to direct impacts.



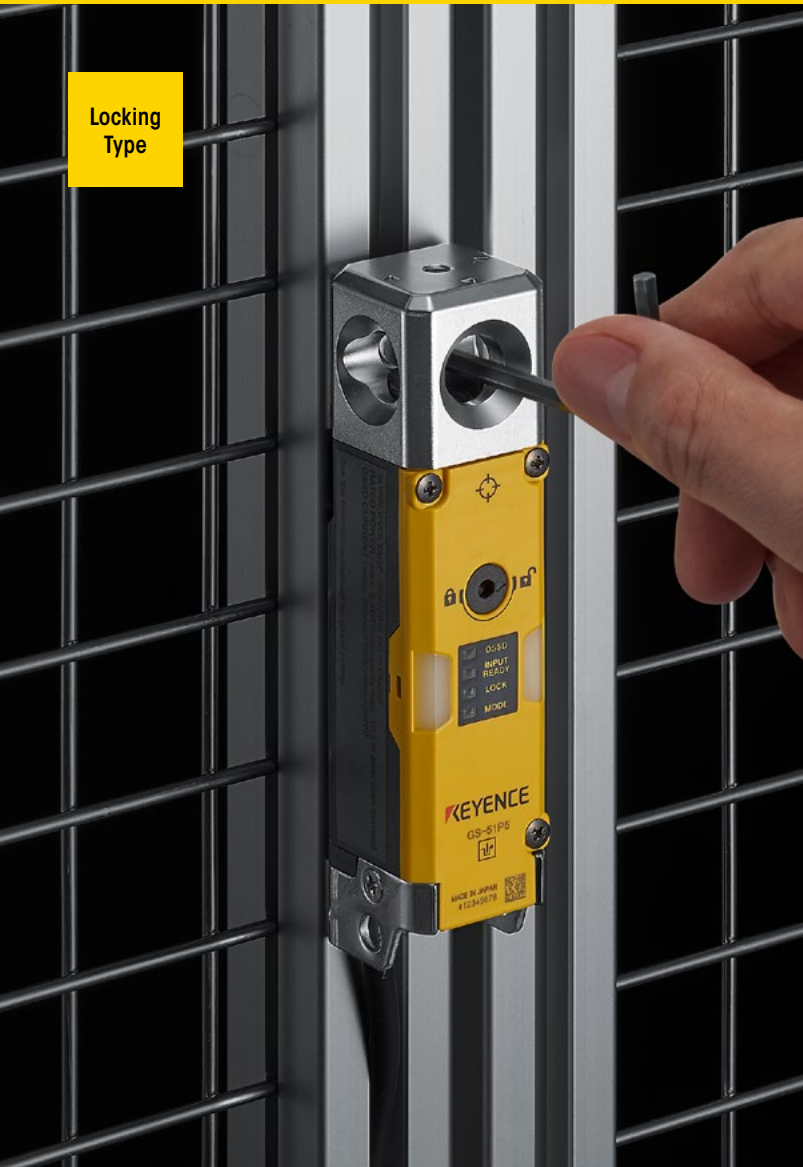
Highly Visible Indicators

Easily recognize the open/close status of all access points with just a quick glance. With their large size, high brightness, and angular cut, the GS Series built-in indicators can be seen from a distance and from multiple directions for instant status identification.



VERSATILE MOUNTING

Locking
Type

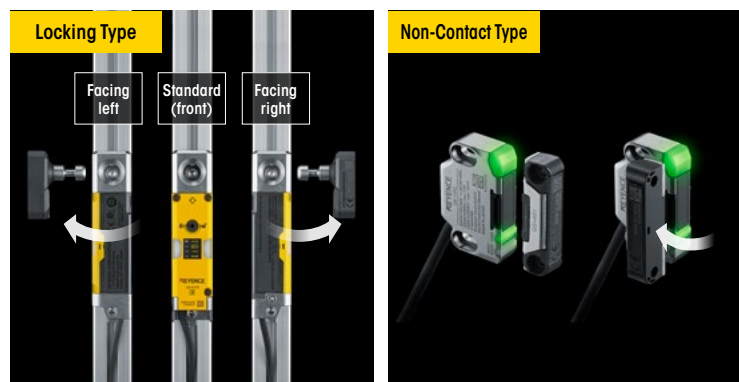


Non-Contact
Type



Direct & Flexible Installation

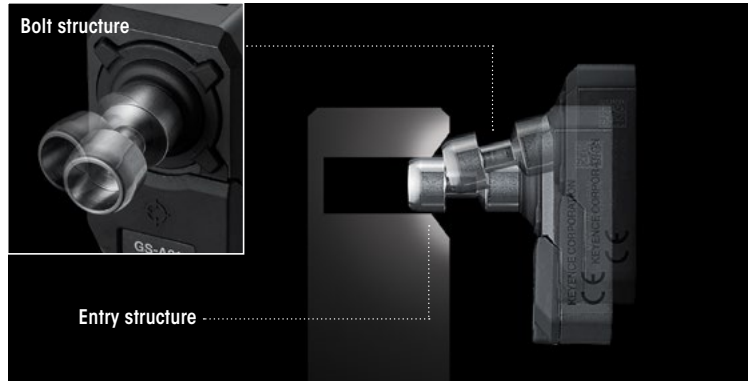
Mounting has never been easier. Both the locking type and the non-contact type can be directly mounted to a machine frame with their built-in mounting holes. Along with this, both types can be rotated to accommodate any door style.



Articulated Actuator

Locking Type Only

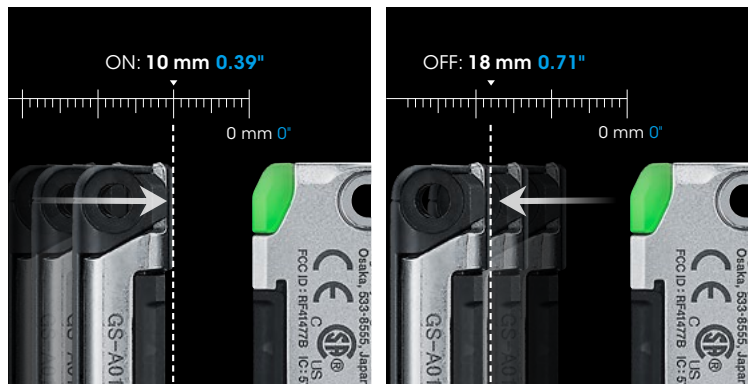
The GS Series locking type models provide a level of flexibility that is unmatched by other locking type interlocks on the market. Not only do they feature a fully articulated locking bolt, but they also offer beveled entry points to ensure mating even as a door sags.



Stable & Reliable Detection

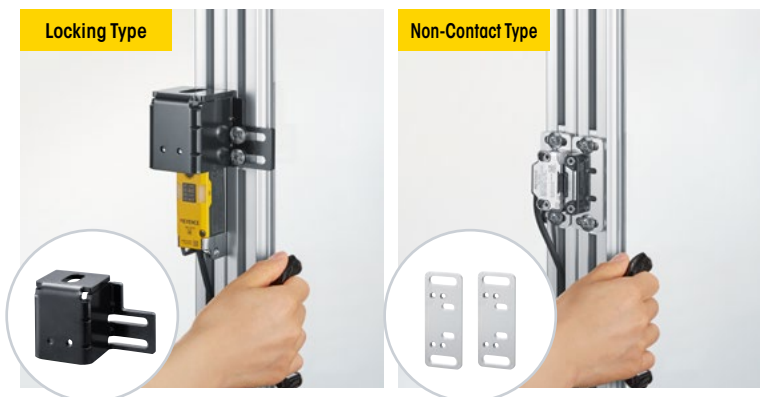
Non-Contact Type Only

The GS Series non-contact type models help prevent nuisance trips and machine stoppage due to improper closure, vibration, door sag, and more. This is because these models offer a forgiving ON-OFF range of up to 18 mm (0.7"), ensuring reliable detection and safe machine operation.



Variety of Dedicated Brackets

It is no longer necessary to fabricate costly brackets for your safety interlocks. From robust designs to slim profiles, the GS Series provides a range of dedicated brackets that will fit a variety of machine setups.



SEAMLESS SYSTEM INTEGRATION

Locking
Type

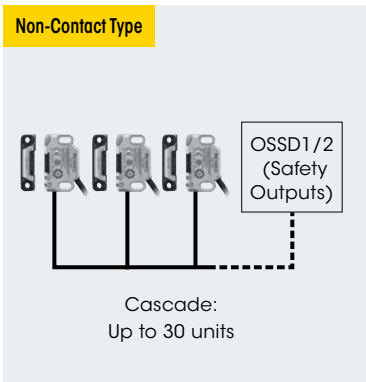
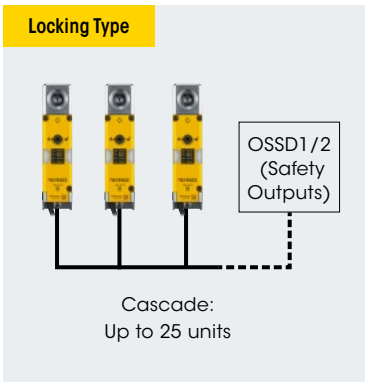


Non-Contact
Type



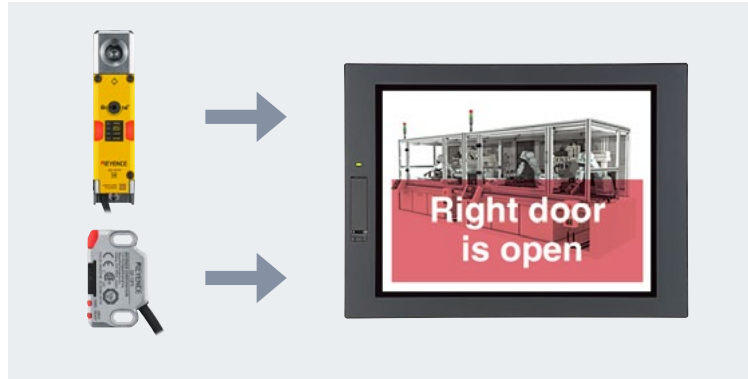
Simplified Wiring Through Cascading

Wiring has never been simpler or easier than with the GS Series and its built-in cascading function. Connect together safety interlocks throughout the machine and cut the total number of safety outputs down to a single pair of OSSDs.



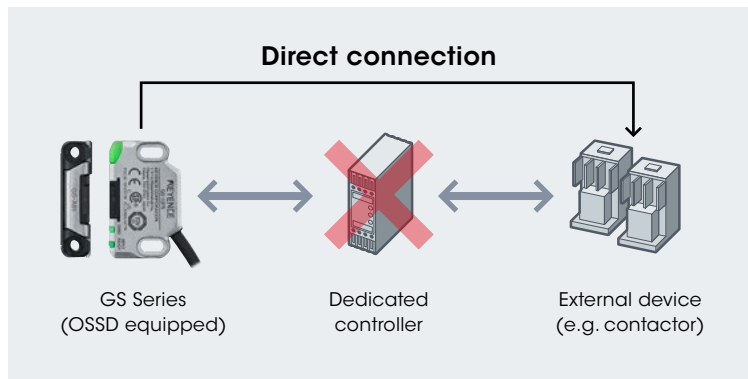
Additional I/O for Monitoring

Even when several units are cascaded together, it is possible to quickly identify which access point is open using an additional auxiliary output from each safety interlock. These outputs can be tied to a PLC, HMI, light, etc. to easily identify the open access point.



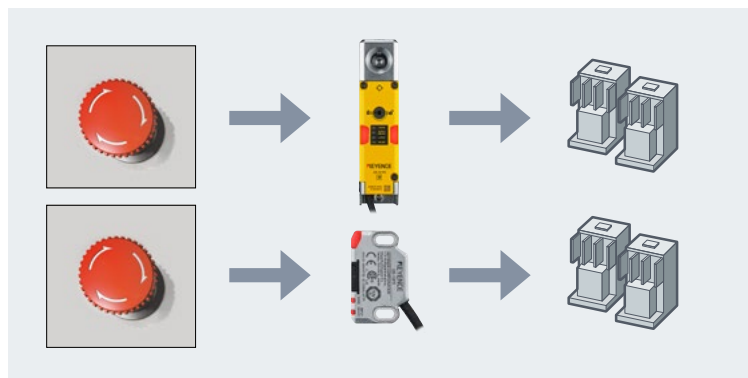
No Additional Relay Necessary

The GS Series enables all-in-one safety wiring by utilizing two OSSD safety outputs along with EDM and manual reset built into specific models. This eliminates the need for a dedicated safety interlock relay or control box, as these GS models can be wired directly to a safety circuit.



E-Stop Compatible

Reduce wiring even further by integrating E-Stops into your safety interlock system. Specific GS models offer safety inputs that can be used to place E-Stops directly in series with the safety interlocks. This helps to further reduce wiring while maintaining safety.



ADDITIONAL FEATURES

Dedicated Handle

Locking Type Only

The GS-Series offers a dedicated handle for the locking type safety interlocks. This sturdy two-action handle is great for new builds or machine redesigns, and provides a complete solution for access point entry and locking.

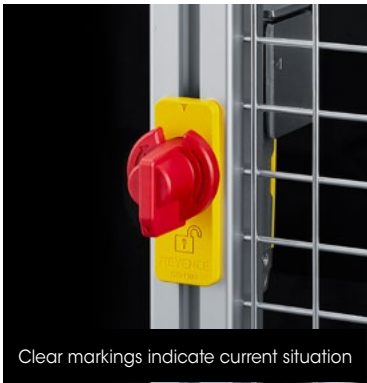


Escape Release

Locking Type Only

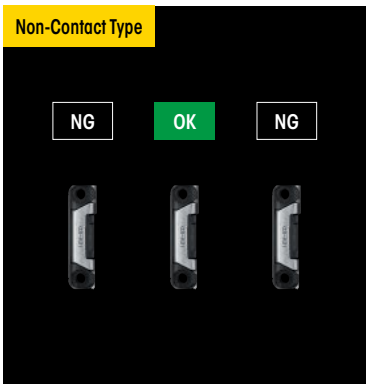
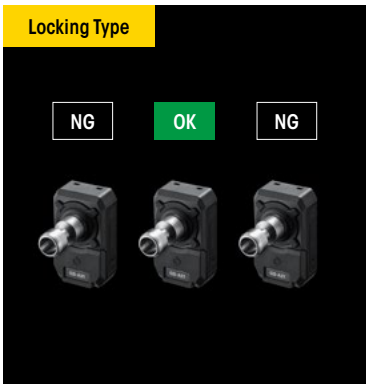
In the event that an operator finds themselves stuck inside of a hazardous area, the escape release can be used to effortlessly open a locked access point and disable power to the hazardous machinery.

* M12 Connector type only

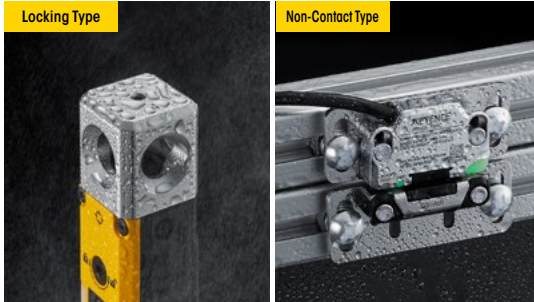


Flexible Unit Coding

The GS Series offers two levels of actuator coding. On LOW, the unit will recognize any GS actuator that it encounters. On HIGH, the unit can be set to only recognize one specific actuator to prevent tampering or confusion.



Superior Environmental Resistance



All models meet IP65/67/69K and NEMA 3, 4X, 12, & 13 ratings for superior environmental resistance.

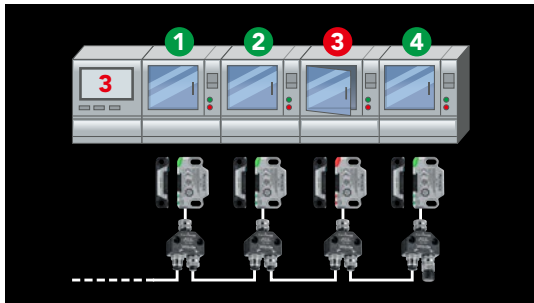
Achieve PLe Level of Safety



Each GS Series unit conforms to the highest level of safety standards to ensure proper machine safety.

Simplified Connections

Non-Contact Type Only



Make cascading even easier with the use of Y-shaped connectors and standard M12 cables.

2000N Holding Force

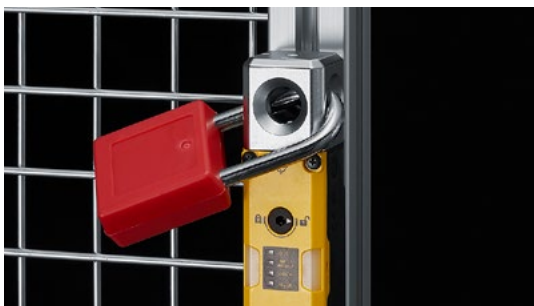
Locking Type Only



The 2000N holding force of the locking type ensures workers cannot force their way into locked areas.

Lock-Out / Tag-Out Ready

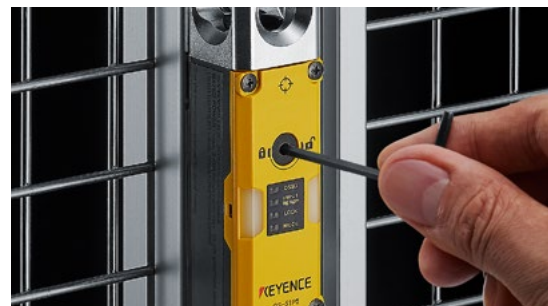
Locking Type Only



The metal head is designed to enable easy lock-out/tag-out to maintain safety during maintenance periods.

Auxiliary (Manual) Release

Locking Type Only



All locking type units feature a manual release to allow access and shut down the machine when necessary.

Selecting a Safety Interlock Switch

STEP
1

Select the appropriate style

1

2

3

4

A lock is necessary (Locking Type)

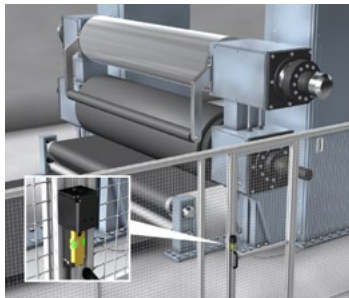
Power-to-Release



Key Features

- Signals required to release locking mechanism
- Remains locked if unit power is lost
- Ideal for high inertia machines that can remain hazardous after power is lost or removed.

Properly guard machines with long stop times.



Power-to-Lock



Key Features

- Signals required to engage locking mechanism
- Lock is disengaged if unit power is lost
- Ideal for machines that stop being hazardous once power is lost or removed.

Guard machines that stop immediately upon loss of power.



A lock is not necessary (Non-Contact Type)

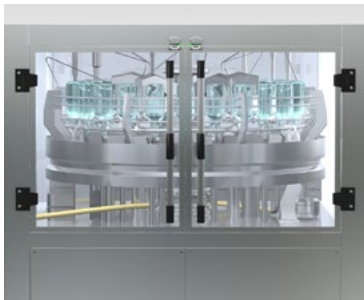
Non-Contact Type



Key Features

- Easily identify door open status
- Contamination resistant design
- Ideal for doors or gates that will remain closed without a locking mechanism
- Also useful for confirming origin position of moving machinery

Door Switch :
Monitor door status without concern for build-up or damage.



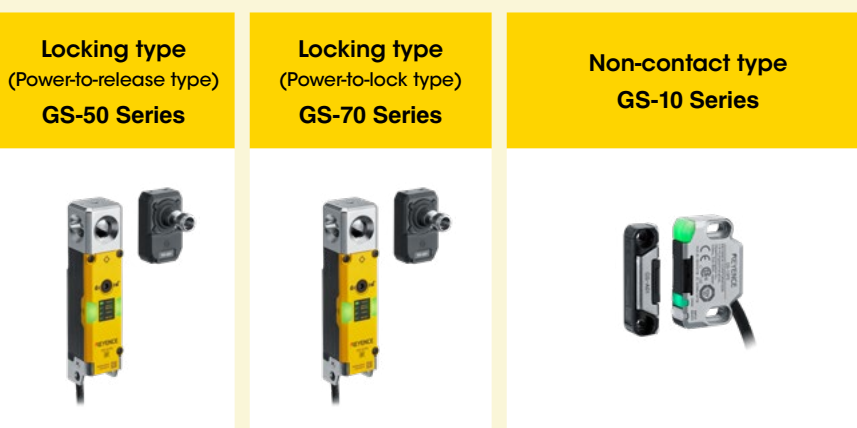
Origin Sensor:
Ensure moving components are located in the correct home positions.



STEP 2

Select the appropriate model

1 2 3 4



Choose the type according to the necessary functions

OSSDs	Redundant safety outputs
Switching OSSDs	(Locking Type) OSSDs can be linked to Open/Close status
AUX output(s)	Additional output(s) to monitor status
Cascade	Connect multiple units in series
Y-shaped connector	Easy to use connector for cascading
Interlock	Enable manual reset through unit
EDM	Monitor external devices for faults
Switching encoding level	Control actuator pairing
Lock control input(s)	Number of locking signals required
Manual release	Disengage lock through face of unit
Escape release compatible ^{*3}	Disengage lock from inside hazardous area
Handle compatible ^{*4}	Integrate with two-action handle

Power-to-release		Power-to-lock		Non-contact type		
Standard type	High performance type	Standard type	High performance type	Simple function type	Standard type	High performance type
✓	✓	✓	✓	✓	✓	✓
—	—	—	✓	—	—	—
1	2	1	2 ^{*1}	1	1	1
✓	✓	✓	✓	—	✓	✓
—	—	—	—	—	✓ ^{*2}	—
—	✓	—	✓	—	—	✓
—	✓	—	✓	—	—	✓
✓	✓	✓	✓	✓	✓	✓
1	2	1	1	—	—	—
✓	✓	✓	✓	—	—	—
✓ ^{*2}	✓	✓ ^{*2}	✓	—	—	—
✓	✓	✓	✓	—	—	—

Select a unit based on cable and output preferences

Standard cable (5 m 16.40')	PNP
	NPN
Standard cable (10 m 32.81')	PNP
	NPN
M12 connector type	PNP
	NPN

Power-to-release		Power-to-lock		Non-contact type		
Standard type	High performance type	Standard type	High performance type	Simple function type	Standard type	High performance type
GS-51P5	—	GS-71P5	—	—	GS-11P5	GS-13P5
GS-51N5	—	GS-71N5	—	—	GS-11N5	—
GS-51P10	—	GS-71P10	—	—	GS-11P10	—
GS-51N10	—	GS-71N10	—	—	GS-11N10	—
GS-51PC	GS-53PC	GS-71PC	GS-73PC	GS-10PC	GS-11PC	GS-13PC
—	—	—	—	—	—	—

^{*1} If you choose open/close link mode for OSSD operation, number of AUX outputs is one. ^{*2} Compatible with M12 connector type only
^{*3} Compatible with KEYENCE optional escape release (GS-H02) ^{*4} Compatible with KEYENCE optional handle (GS-H01)

STEP
3

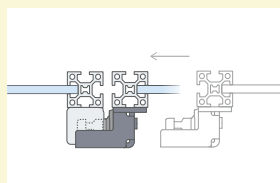
Select the appropriate brackets

1 2 **3** 4



Sliding door

Locking type



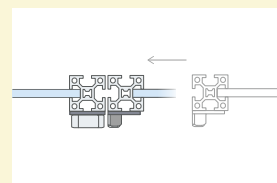
For main unit

No bracket

For actuator
Mounting bracket for
sliding door (right side slides)
GS-B33*



Non-contact type



For main unit
Flat mounting
bracket
GS-B11



For actuator
Flat mounting
bracket
GS-B11

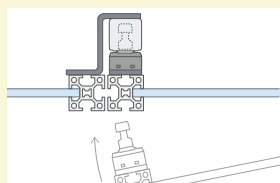


*Mounting bracket for sliding door (left side slides) GS-B43 is also available.



Hinged door (attachment on the inside)

Locking type

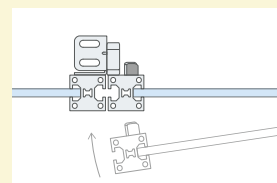


For main unit &
actuator

Mounting
bracket
(attachment on
the inside)
GS-B21



Non-contact type



For main unit
L-shaped
mounting bracket
GS-B01



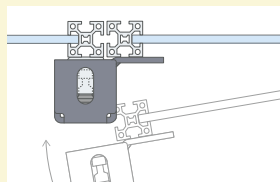
For actuator

No bracket



Hinged door (attachment on the front side)

Locking type



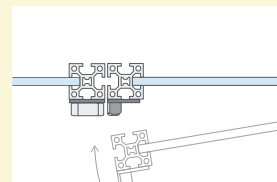
For main unit

No bracket

For actuator
Hinged door mounting
bracket (right-open)
GS-B31*



Non-contact type



For main unit
Flat mounting
bracket
GS-B11





For actuator
Flat mounting
bracket
GS-B11



*Hinged door mounting bracket (left-open) GS-B41 is also available.

Cables for M12 connector type models

	Type	Length	Model	Weight
Standard 	Simple function type (5-pin)	5 m 16.40'	GS-P5C5	Approx. 200 g
		10 m 32.81'	GS-P5C10	Approx. 390 g
	Standard type (8-pin)	5 m 16.40'	GS-P8C5	Approx. 230 g
		10 m 32.81'	GS-P8C10	Approx. 420 g
	High performance type (12-pin)	5 m 16.40'	GS-P12C5	Approx. 250 g
		10 m 32.81'	GS-P12C10	Approx. 480 g
		20 m 65.62'	GS-P12C20	Approx. 950 g
For extension 	Simple function type (5-pin)	5 m 16.40'	GS-P5CC5	Approx. 310 g
		10 m 32.81'	GS-P5CC10	Approx. 580 g
	Standard type (8-pin)	1 m 3.28'	GS-P8CC1	Approx. 70 g
		5 m 16.40'	GS-P8CC5	Approx. 240 g
		10 m 32.81'	GS-P8CC10	Approx. 450 g

Locking type accessories

Replacement Actuator GS-A21

Approx. 60 g



Dedicated Handle GS-H01

Approx. 1070 g



Escape Release GS-H02

Approx. 90 g



Non-contact type accessories

Replacement Actuator GS-A01

Approx. 15 g



Y-Shaped Connector GS-Y01

Approx. 50 g



End Terminal for Y-Shaped Connector GS-Y02

Approx. 15 g



Specifications

Locking Type

Model			GS-51P5	GS-51N5	GS-51P10	GS-51N10	GS-51PC	GS-53PC	GS-71P5	GS-71N5	GS-71P10	GS-71N10	GS-71PC	GS-73PC		
Lock type			Power-to-release type						Power-to-lock type							
Type			Standard type					Advanced function type	Standard type				Advanced function type			
Output type			PNP	NPN	PNP	NPN	PNP	PNP	PNP	NPN	PNP	NPN	PNP	PNP		
Response time (ms) ^{*1,2}	Lock	Lock →Unlock	220 ms						320 ms							
		Unlock →Lock	220 ms ³													
Lock	Locking force (Fzh)		Min. 2,000 N													
	Alignment tolerance of lock		±2 mm ±0.08°													
	Mechanical life-span		1 million cycles or more (with door operation speed of 1 m/s)													
	Acceptable operation frequency ^{*4}		1 Hz													
	Door radius		Min. 250 mm 9.84"													
	Auxiliary release ^{*5}		Front, back													
Cascading			Max. 25 units													
Control output (OSSD output)	Output		Transistor outputs × 2													
	Max. load current		PNP: Max. 150 mA, NPN: Max. 100 mA													
	Residual voltage (during ON)		Max 2.5 V (with a cable length of 5 m 16.40°)													
	OFF state voltage		Max 2.0 V (with a cable length of 5 m 16.40°)													
	Leakage current		Max. 0.5 mA													
	Max. capacitive load		2.2 µF													
	Load wiring resistance		Max. 2.5 Ω													
AUX (Non-safety related output)	Output		Transistor output													
	Number of outputs		1					2		1				2 ^{*6}		
	Max. load current		50 mA													
	Residual voltage (during ON)		Max 2.5 V (with a cable length of 5 m 16.40°)													
External input (Short-circuit current)	Safety input		Approx.1.5 mA × 2													
	Reset/EDM input		—					Approx. 10 mA × 1		—				Approx. 10 mA × 1		
	Lock control input		Approx. 2.5 mA × 1					Approx. 2.5 mA × 2		Approx. 2.5 mA × 1						
	OSSD operation switching input		—													
Power supply	Power voltage		24 V DC ±20 % (Ripple P-P 10 % or less, Class2)													
	Power consumption		3.4 W ^{*8}													
Protection circuit			Reverse current protection, short-circuit protection and surge protection for each output													
Environmental resistance	Enclosure rating		IP65/67(IEC60529), IP69K(ISO 20653) (TÜV SÜD certified), Enclosure Type 3/4X/12/13 (NEMA250)													
	Operating ambient temperature		-20°C to +55°C ⁻ -4°F to 131°F (No freezing)													
	Storage temperature		-25°C to +70°C ⁻ -13°F to 158°F (No freezing) ^{*9}													
	Operating relative humidity		5% to 95%RH													
	Storage relative humidity		5% to 95%RH													
	Vibration resistance		10 to 55 Hz, Double amplitude 2.0 mm 0.08", 5 minutes in each of the X, Y, and Z directions (IEC 60947-5-3)													
Shock resistance			30 G in X, Y, Z directions 6 times each axis (IEC 60947-5-3)													
Applicable Standards (Safety)			EN 61508, IEC 61508(SIL2/SIL3) EN 62061, IEC62061(SIL CL2/SIL CL3) EN ISO13849-1: 2015(PLd, Category 2/PLe, Category 4) EN ISO14119(Type4) IEC 60947-5-3, EN 60947-5-3 UL 61010-1, CAN/CSA-C22.2 No.61010-1													
Material	Main unit	Case	SUS304, PPS, PBT, PAR, PA66, NBR													
		Lock	Aluminum alloy, Zinc die cast (Nickel chrome plating)													
		Cable	PVC													
	Actuator	Case	PPS, PBT, NBR													
		Lock	Aluminum alloy, SUS303													
Weight			Approx. 560 g		Approx. 770 g		Approx. 380 g		Approx. 560 g		Approx. 770 g		Approx. 380 g			

*1 Risk time according to IEC60947-5-3 is 150 ms + 2 ms × (number of units cascaded -1).

*2 If the OSSD operation is open/close link mode, Detect → Not detect: 20 ms + 2 ms × (number of units cascaded -1), Not detect → Detect: 30 ms + 25 ms × (number of units cascaded -1)

*3 430 ms when locked at the same time the actuator is detected.

*4 Acceptable door operation frequency is 3 Hz if the OSSD operation is open/close link mode. In that case, operation distance is Sao(OFF → ON) = 3 mm 0.12", Sar(OFF → ON) = 10.5 mm 0.41".

*5 Do not apply excessive torque (0.45N·m or higher).

*6 The number of AUX outputs is 1 when the OSSD operation is open/close link mode.

*7 The number of OSSD operation switching inputs is 1 when the OSSD operation is lock link mode.

*8 Power consumption temporarily increases (Max. 10.5 W, Approx. 0.2 s) when the lock control input(s) is(are) turned ON. After that, current consumption will be within the specification.

*9 When stored for a long period of time, please store it at a temperature of 55°C 131°F or lower.

Mounting brackets

Model	GS-B21	GS-B31	GS-B41	GS-B33	GS-B43
Type	Mounting bracket (attachment on the inside)	Hinged door mounting bracket (right-open)	Hinged door mounting bracket (left-open)	Mounting bracket for sliding door (right side slides)	Mounting bracket for sliding door (left side slides)
Weight	Approx. 590 g	Approx. 380 g	Approx. 380 g	Approx. 260 g	Approx. 260 g

Non-Contact Type

Model			GS-10PC	GS-11P5	GS-11N5	GS-11P10	GS-11N10	GS-11PC	GS-13P5	GS-13PC
Type			Simple function type	Standard type					Advanced function type	
Output type			PNP	PNP	NPN	PNP	NPN	PNP	PNP	PNP
Operating distance	Front	Sao(OFF→ON)	10 mm 0.39"							
		Sar(ON→OFF)	18 mm 0.71"							
	Side	Sao(OFF→ON)	6 mm 0.24"							
		Sar(ON→OFF)	14 mm 0.55"							
Response time (ms) ^{*1}	Detection	Detect →Not detect	20 ms + 2 ms × (number of units cascaded -1)							
		Not detect →Detect	30 ms + 25 ms × (number of units cascaded -1)							
Door operation	Acceptable operation frequency		3 Hz							
Cascading	Standard		—	—					Max. 30 units	
	Using Y-shaped connector							Max. 4 units ^{*2}	—	
Control output (OSSD output)	Output		Transistor outputs × 2							
	Max. load current		PNP: Max. 150 mA, NPN: Max. 100 mA							
	Residual voltage (during ON)		Max 2.5 V (with a cable length of 5 m 16.40')							
	OFF state voltage		Max 2.0 V (with a cable length of 5 m 16.40')							
	Leakage current		Max. 500 µA							
	Max. capacitive load		2.2 µF							
	Load wiring resistance		Max.2.5Ω							
AUX (Non-safety related output)	Output		Transistor output							
	Number of outputs		1							
	Max. load current		50 mA							
	Residual voltage (during ON)		Max 2.5 V (with a cable length of 5 m 16.40')							
External input (Short-circuit current)	Safety input		—	Approx. 1.5 mA × 2						
	Reset/EDM input		—					Approx. 5.0 mA × 1		
Power supply	Power voltage		24 V DC ±20 % (Ripple P-P 10 % or less, Class2)							
	Power consumption		0.8 W							
Protection circuit			Reverse current protection, short-circuit protection and surge protection for each output							
Environmental resistance	Enclosure rating		IP65/67(IEC60529), IP69K(ISO20653) (TÜV SÜD certified) Enclosure Type 3/4X/12/13 (NEMA250)							
	Operating ambient temperature		-20°C to +55°C -4°F to 131°F (No freezing)							
	Storage temperature		-25°C to +70°C -13°F to 158°F (No freezing) ^{*3}							
	Operating relative humidity		5% to 95%RH							
	Storage relative humidity		5% to 95%RH							
	Vibration resistance		10 to 55 Hz, Double amplitude 3.0 mm 0.12", 5 minutes in each of the X, Y, and Z directions (IEC 60947-5-3)							
	Shock resistance		30 G in X, Y, Z directions 6 times each axis (IEC 60947-5-3)							
Applicable Standards (Safety)			EN 61508, IEC 61508 (SIL3) EN 6206, IEC62061 (SIL CL3) EN ISO13849-1: 2015 (PLe, Category 4) EN ISO14119 (Type4) IEC 60947-5-3, EN 60947-5-3 UL 61010-1, CAN/CSA-C22.2 No.61010-1							
Material	Sensor main unit	Case	Zinc die cast (Nickel chrome plating), PBT, PAR							
		Cable	PVC							
	Actuator	Case	SUS430, SUS304, PBT							
Weight			Approx. 80 g	Approx. 270 g		Approx. 480 g		Approx. 80 g	Approx. 280 g	Approx. 80 g

^{*1} Risk time according to IEC60947-5-3 is 150 ms + 2 ms × (number of units cascaded -1).

^{*2} When AUX outputs of each unit are not used, it is possible to cascade up to 10 units.

^{*3} When stored for a long period of time, please store it at a temperature of 55°C 131°F or lower.

Mounting brackets

Model	GS-B01	GS-B11
Type	L-shaped mounting bracket	Flat mounting bracket
Weight	Approx. 80 g	Approx. 60 g

Examples of wiring

Explanatory notes

S1-1 Reset switch (NO)
K1, K2 External device (force guided relay, magnetic connector, etc.)

Safety PLC Control systems related to safety.
General-purpose PLC Used for monitoring, not for controlling systems related to safety.

Locking type (Power-to-release) GS-50 Series Examples

Cascade Example: 1st Unit

GS-53PC

PNP output

Advanced function type

Power-to-release type

Interlock: Manual

EDM: Used

Cascade connection: Yes

Cascade Example: 2nd Unit

GS-53PC

PNP output

Advanced function type

Power-to-release type

Interlock: Automatic

EDM: Not used

Cascade connection: No

Single Unit Example

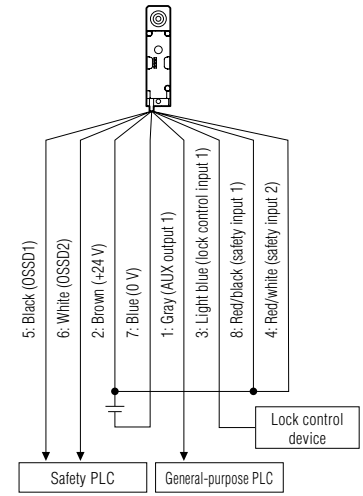
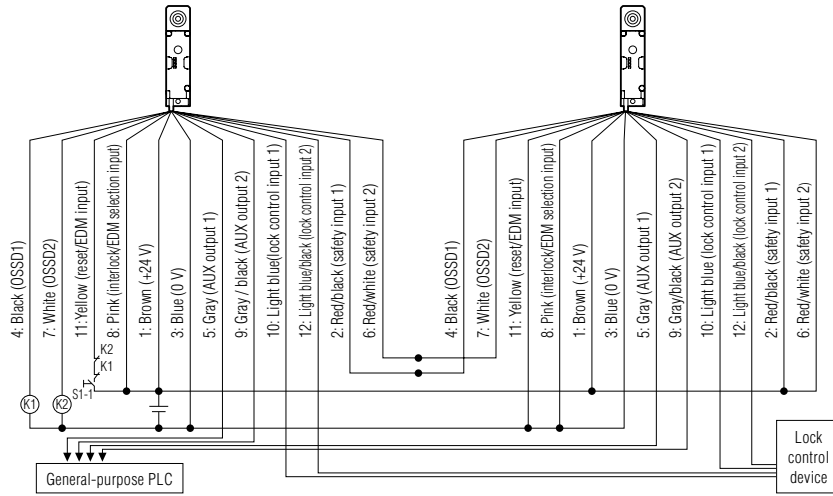
GS-51P5

PNP output

Standard type

Power-to-release type

Cascade connection: No



Locking type (Power-to-lock) GS-70 Series Examples

Single Unit Example

GS-71P5

PNP output

Standard type

Power-to-lock type

Cascade connection: No

Single Unit Example

GS-73PC

PNP output

Advanced function type

Power-to-lock type

Interlock: Automatic

EDM: Not used

Cascade connection: No

OSSD operation: Open/close link

Single Unit Example

GS-73PC

PNP output

Advanced function type

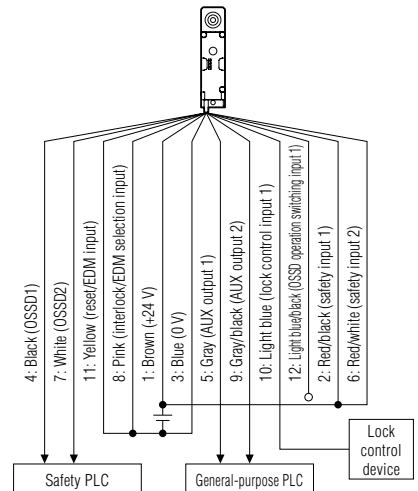
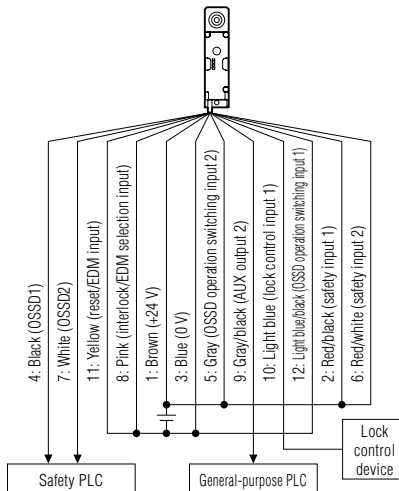
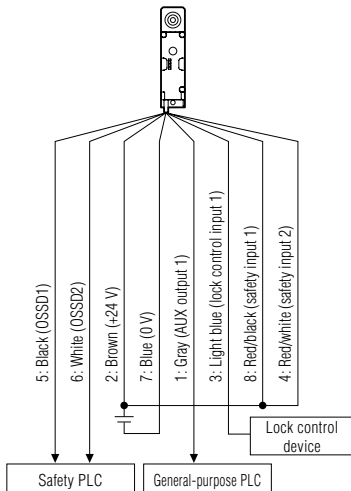
Power-to-lock type

Interlock: Automatic

EDM: Not used

Cascade connection: No

OSSD operation: Lock link



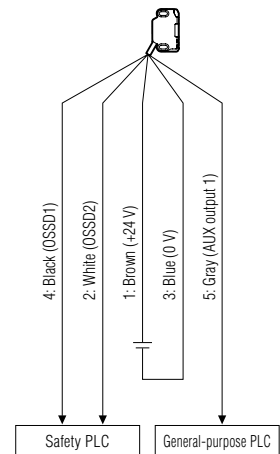
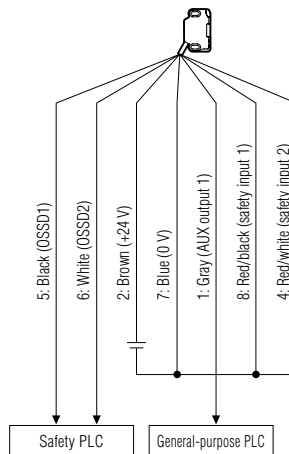
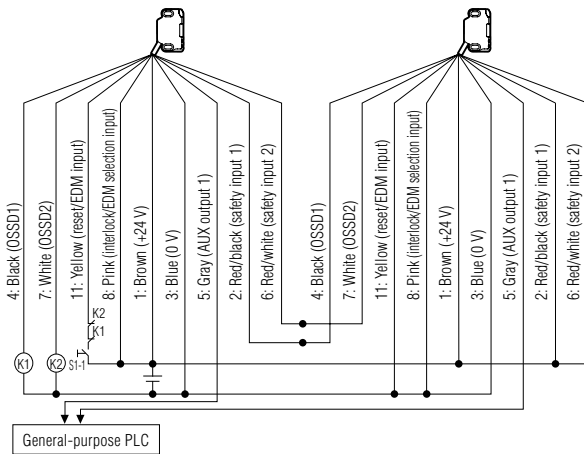
Non-contact type GS-10 Series Examples

Cascade Example: 1st Unit
GS-13PC
PNP output
Advanced function type
Interlock: Manual
EDM: Used
Cascade connection: Yes

Cascade Example: 2nd Unit
GS-13PC
PNP output
Advanced function type
Interlock: Automatic
EDM: Not used
Cascade connection: No

Single Unit Example
GS-11N5
NPN output
Standard type
Interlock: Automatic
EDM: Not used
Cascade connection: No

Single Unit Example
GS-10PC
PNP output
Simple function type

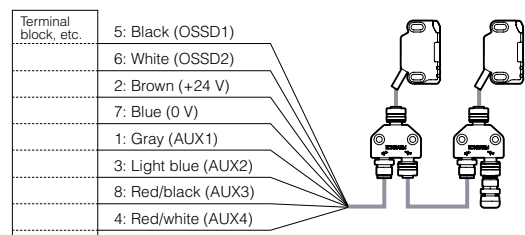


Tip Make wiring easier by using the Y-shaped connectors for double door setups.

For a double door system, generally the system stops when one of the doors opens.

By using the Y-shaped connectors, this process can be made very easy using simple M12 cables. This also provide the additional AUX outputs to identify which door is open (for up to 4 doors).

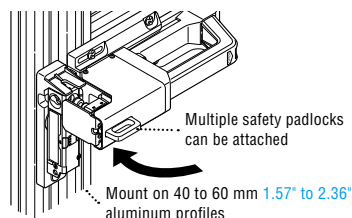
Configuration	
Non-contact type, standard type	GS-11PC ×2
M12 connector type	GS-Y01 ×2
Y-shape connector	GS-Y02 ×1
End connector	GS-P8C5 ×1
M12 connector cable Standard 5 m	GS-P8CC1 ×1
M12 connector cable for extension 1 m	



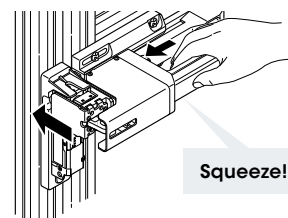
Tip Two-action handle ensures a high level of safety.

Unlike ordinary handles, the GS-H01 is a two-action handle. Even if the door is unintentionally or accidentally closed, the machine will not automatically start. This is because it is necessary to squeeze and slide the handle into place once the door is closed to restart machine operation.

[1] Lock is not engaged by just closing the door



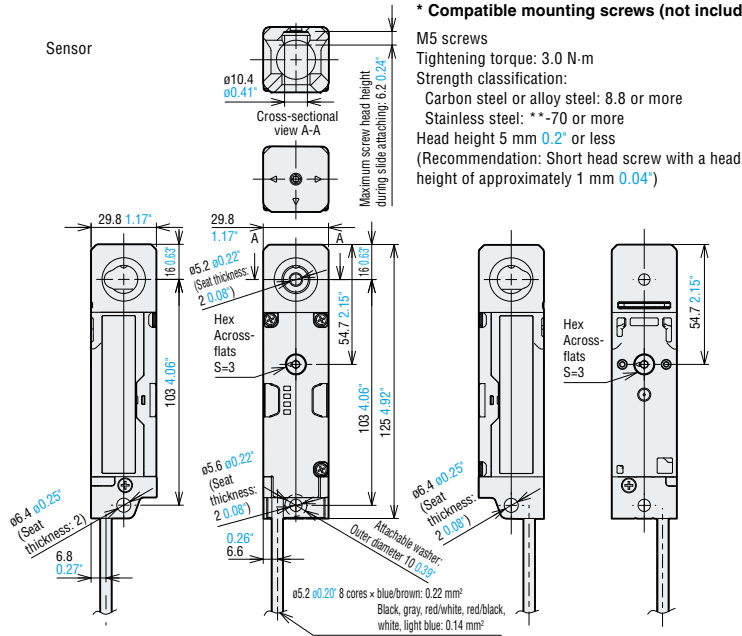
[2] Lock is engaged after handle is squeezed and slid



Dimensions

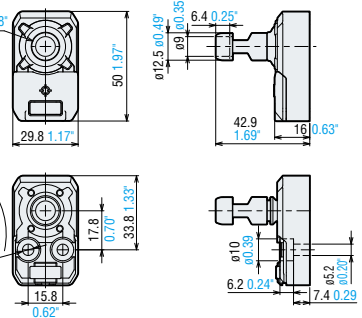
GS-50/70 Series

Sensor



Actuator

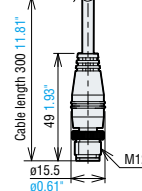
Upper, lower, left, and right range of bolt motion: 2 0.08



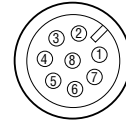
Without the cover

2 x 0.2 mm (0.02 inches) Counterbore diameter: 10 0.39 inches Depth: 6.2 0.24 inches

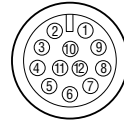
M12 Connector type GS-51PC/53PC/71PC/73PC



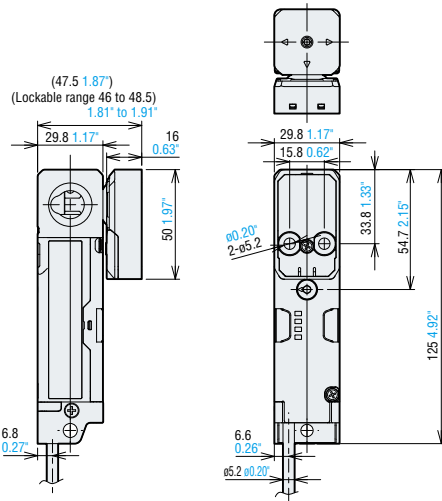
Standard type (M12 8 pin male)



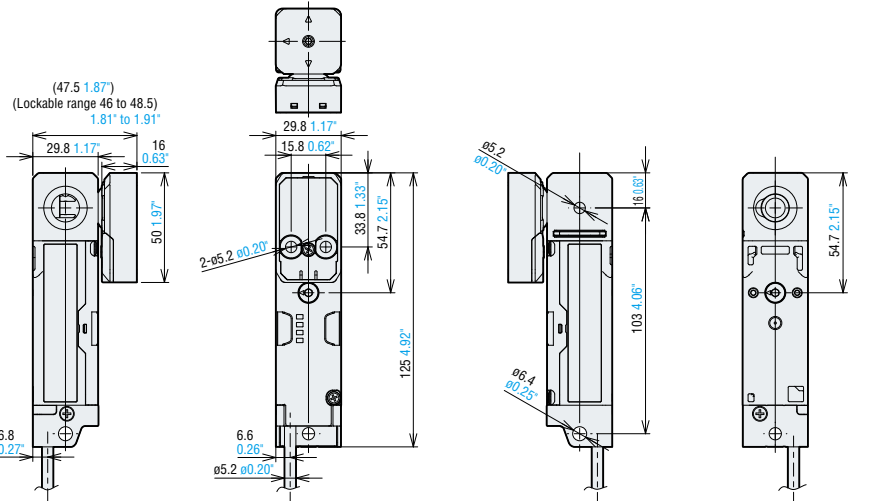
Advanced function type (M12 12 pin male)



Sensor + Actuator (Installed facing front)

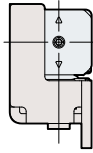


Sensor + Actuator (Installed facing right)

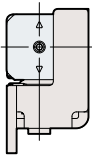


Dimensions

GS-50/70 Series + GS-B33
 Sensor + Actuator + Bracket
 (Installed facing left, installed outside of door)
 Accessories: M5 hexagon socket head cap screw for
 attaching the actuator × 2

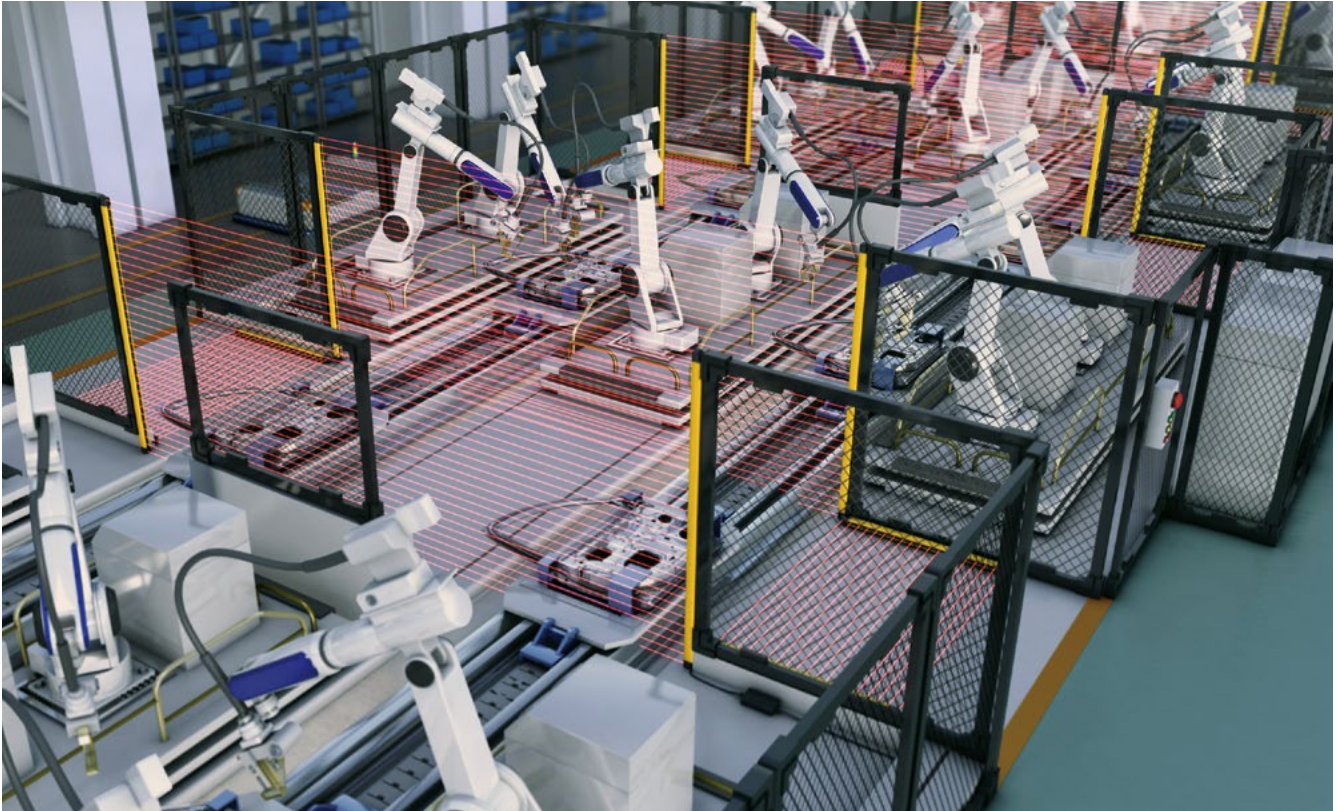


GS-50/70 Series + GS-B43
Sensor + Actuator + Bracket
(Installed facing left, installed outside of door)
Accessories: M5 hexagon socket head cap screw
for attaching the actuator × 2



GL-R SERIES

Global Standard for Light Curtains



Robust Housing

The GL-R Series features a recessed lens, extruded aluminum housing, and high enclosure ratings to ensure lasting operation in any environment.

High Powered

Whether detecting over a long range or in an area with high debris and build-up, the GL-R Series provides high power to maintain stable detection and eliminate nuisance trips.

Easy to Align

Alignment has never been easier! The GL-R Series offers built-in indicators for easy visual alignment, as well as an optional laser alignment tool for more difficult setups.

STANDARD TYPE

GL-RF

(Detection capability: $\varnothing 14$ mm $\varnothing 0.55''$)

GL-RH

(Detection capability: $\varnothing 25$ mm $\varnothing 0.98''$)

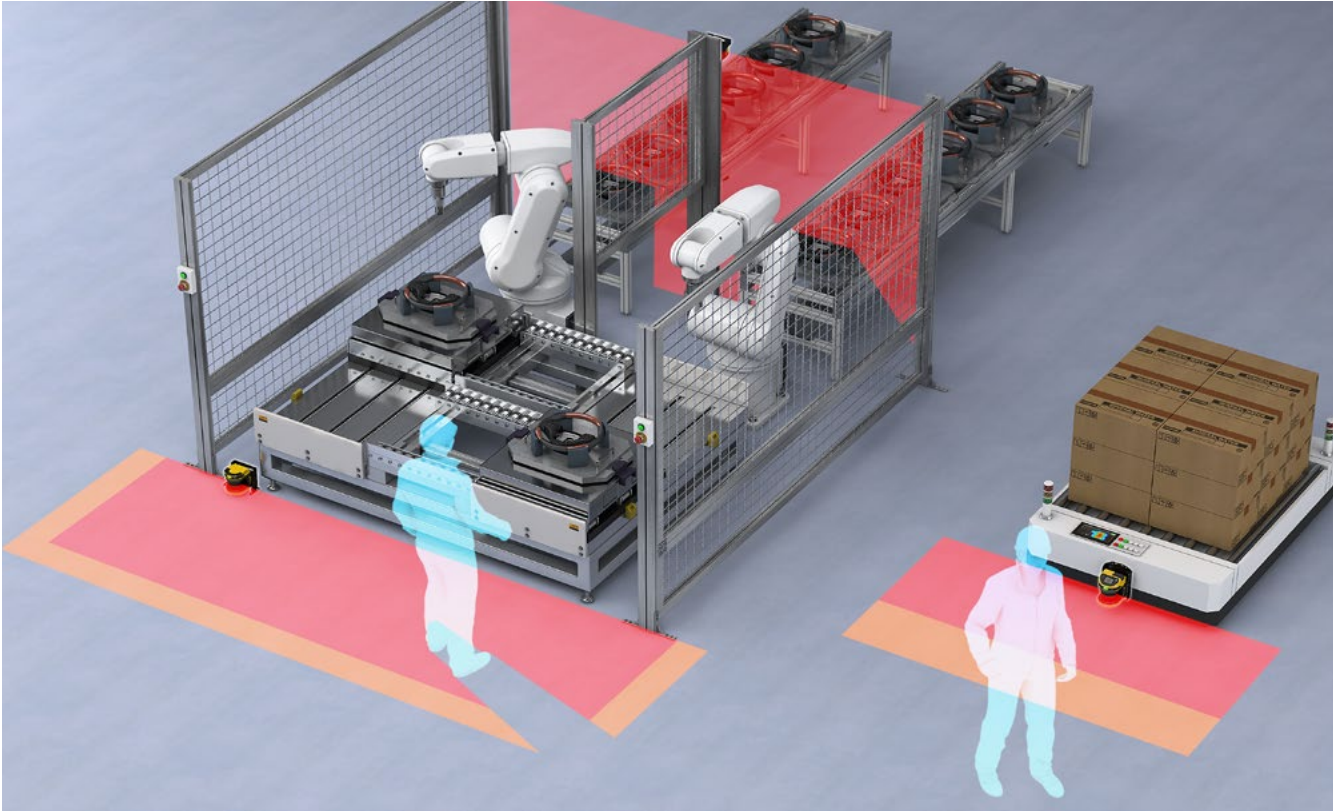
GL-RL

(Detection capability: $\varnothing 45$ mm $\varnothing 1.77''$)



SZ-V SERIES

Industry Leading Safety Scanner



Fully Customizable Setup

From area monitoring to access protection to collision prevention, the SZ-V Series offers a fully customizable safety solution for any situation.

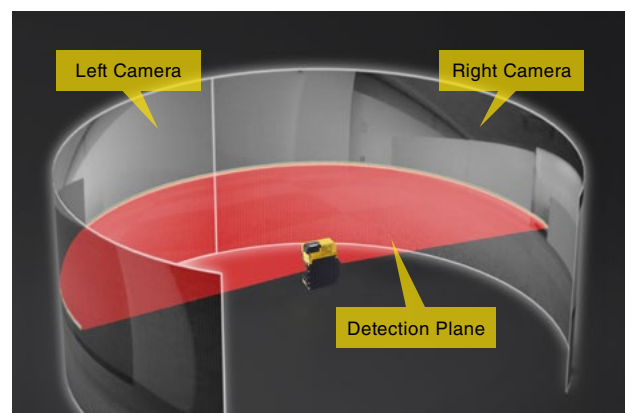


Seperate Display

Easily monitor scanner operation and status without entering the hazardous area by utilizing the SZ-V Series detachable display.

World's First Built-in Camera

Quickly identify the cause of any recent trip by actually seeing what entered the protected area through either pictures or even videos.





Safety Interlock Switches GS Series



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SAFETY INFORMATION

Please read the instruction manual carefully in order to safely operate any KEYENCE product.

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