

Think Automation and beyond...



IDEC Safety Interlock Switches

IDEC Safety Components

Providing reliable, human-machine safety components



As increasingly more complex tasks are taken over by machines, it has become common for people and machines to interact closely on a daily basis. In these human-machine interactions, it is critical that safety components are used as a countermeasure to avoid injuries.

As machine safeguarding continues to evolve both in products and regulations, IDEC Corporation has created a family of safety components to meet industry demands and needs. With six decades of experience in industrial automation, IDEC continues to produce the same high-quality and globally-recognized products that can be relied upon for machine safety control throughout the world.

To us, safety isn't just about meeting safety requirements; it's about protecting people and productivity.







IDEC Safety Interlock Switch Family

Compact, High-Quality Designs

Often used for gate and door monitoring or locking, IDEC safety interlock switches are created with a high-quality and compact design aimed at achieving the ultimate goal of maximum personnel safety.

When installed correctly in a safety circuit, IDEC HS safety switches ensure that doors, gates and guards are closed before a process or machine can start up. When the gate or door is opened, the actuating key is removed from the switch thus signaling a safety logic device.

Safety Made Simple

Simple to install, HS safety interlock switches feature metal or plastic heads or bodies of different shapes, sizes and connection methods to cover most safeguarding applications, while complying with both domestic and European safety standards. For some international standards, such as EN1088, applications can only use proprietary actuators to prevent tampering of the gate or door. HS switches are perfect for this, as they meet or exceed all standards.

Variety to Choose From

Available in a variety of sizes, contact arrangements and functions, IDEC HS safety interlock switches can be used in a wide-range of safety system applications from machine tools and semiconductor equipment to packaging and material handling equipment.





IDEC has a variety of gate/door switches to meet all your needs!

Basic Safety Interlock Switches



Subminiature - HS6B 30 x 15 x 78mm 2 or 3 contacts Integrated cable Plastic body (page 5)



Miniature - HS5D 30 x 30 x 90mm 2 or 3 contacts Screw termination Metal or plastic head (page 6)



Full Size - HS1B 52 x 35 x 125mm 2 contacts Screw termination Die-cast aluminum body (page 7)

Solenoid Locking Safety Interlock Switches



Subminiature - HS6E

75 x 15 x 75mm 500N 5 contacts Integrated cable Plastic body (page 8)



Miniature - HS5E 35 x 40 x 146mm 1400N 4 contacts Integrated cable Metal head, plastic body (page 10)



Full Size - HS1E 104 x 35 x 129mm 1500N 3-4 contacts Screw termination Plastic body (page 12)



Full Size - HS1C 106 x 35 x 125mm 1500N 3-4 contacts Screw termination Die-cast aluminum body (page 16)



Full Size- HS1L

104 x 35 x 129mm 3000N 6 contacts Screw termination Plastic body (page 14)

Subminiature HS6B

HS6B features:

- Only 78 x 30 x 15mm
- Two actuator entrances provide flexibility for installation options
- Integral molded cable reduces wiring time
- IP67 (IEC60529)
- Direct Opening Action
- Actuators comply with ISO14119 and EN1088





Part Numbers

Contact Configuration	Cable Length	Part Number
1NC-1N0	1m	HS6B-11B01
11 <u></u> 12 ⊖	3m	HS6B-11B03
33 34	5m	HS6B-11B05
2NC	1m	HS6B-02B01
$11 \xrightarrow{Zb} 12 \xrightarrow{31} 32 32 32$	3m	HS6B-02B03
31 ── 32 ↔	5m	HS6B-02B05
2NC-1NO	1m	HS6B-12B01
$11 \xrightarrow{1} 12 \xrightarrow{2} 22 \xrightarrow{1} 22 \xrightarrow{1} 22$	3m	HS6B-12B03
33 - 34	5m	HS6B-12B05
3NC	1m	HS6B-03B01
	3m	HS6B-03B03
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5m	HS6B-03B05

Standard stock items in bold.

Actuator Keys

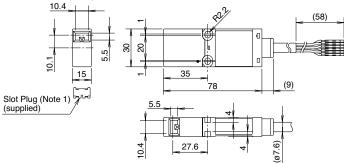
Appearance	Part Number	Shape
100	HS9Z-A61	Straight
00.1	HS9Z-A62	Right-angle
	HS9Z-A65	Adjustable actuator 90° angle
	HS9Z-A66	Adjustable actuator 180° angle

Actuators are not included and must be ordered separately.

Specifications

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Conforming to Standards		EN1088, IEC60947-5-1, EN60947-5-1, GS-ET-15, IEC60664-1, IEC60204-1, EN60204-1, UL508, CSA C22.2 No. 14						
Operating Temperature	–25 to	-25 to +70°C (no freezing)						
Storage Temperature	-40 to	-40 to +80°C (no freezing)						
Relative Humidity	45 to	85% (no condensation)						
Storage Humidity	95% r	maximum (no condensatio	n)					
Rated Insulation Voltage (U _i)	300V	300V						
Degree of Protection	IP67 (IEC60529)							
Direct Opening Travel	8mm minimum							
Direct Opening Force	60N minimum							
Thermal Current (I _{th})	2.5A	2.5A						
	Rated	Voltage (U _e)	30V	125V	250V			
	AC	Resistive load (AC-12)	-	2.5A	1.5A			
	AU	Inductive load (AC-15)	-	1.5A	0.75A			
Rated Operating Current (I ₂)		Resistive load (DC-12)	2.5A	1.1A	0.55A			
ounone (r _e /	DC	nesistive ioau (DC-12)	(2A)	(0.4)A	(0.2A)			
	DC	Inductive load (DC-13)	2.3A	0.55A	0.27A			
		Inductive Ioad (DC-13)	(1A)	(0.22A)	(0.1A)			
Operating Frequency	1200	operations/hour						
Mechanical Life	1,000	1,000,000 operations (GS-ET-15)						
Electrical Life	100,0	100,000 operations (at full rated load)						
Weight	120g	- 1m cable type, 270g - 3r	n cable t	ype, 420g - 5r	n cable type			

Dimensions (mm)



Miniature HS5D

HS5D features:

- Detects detachment of head for enhanced safety
- Compact dimensions with up to three contacts
- The head orientation can be rotated, allowing 8 different actuator entries
- NC contacts with direct opening action (IEC/EN60947-5-1)
- M3 terminal screws for easy wiring
- Gold-plated contacts suitable for small loads



Part Numbers

Contact Configuration	Gland Port Size	Plastic Head Type	Metal Head Type
1NC-1NO Zb	G1/2	HS5D-11RN	HS5D-11ZRN
Main Circuit $\ominus 11 + 12$	PG13.5	HS5D-11RNP	HS5D-11ZRNP
Monitor Circuit 23 24	M20	HS5D-11RNM	HS5D-11ZRNM
2NC Zb	G1/2	HS5D-02RN	HS5D-02ZRN
Main Circuit $\ominus 11 + 12$	PG13.5	HS5D-02RNP	HS5D-02ZRNP
Monitor Circuit ⊖ 21, 22	M20	HS5D-02RNM	HS5D-02ZRNM
2NC-1NO Zb	G1/2	HS5D-12RN	HS5D-12ZRN
Main Circuit $\ominus 11 + 12$ Main Circuit $\ominus 21 + 22$	PG13.5	HS5D-12RNP	HS5D-12ZRNP
Main Circuit $\bigcirc 216 \ 226$ Monitor Circuit $33 \ 34$	M20	HS5D-12RNM	HS5D-12ZRNM
3NC	G1/2	HS5D-03RN	HS5D-03ZRN
$\begin{array}{ccc} Zb \\ Main Circuit & \ominus 11 & 12 \\ \hline 0 & 11 & 02 \\ \hline 0 & 12 & 02 \\ \hline 0 &$	PG13.5	HS5D-03RNP	HS5D-03ZRNP
$\begin{array}{c c} \text{Main Circuit} & \textcircled{O} & \underline{21} & \underline{22} \\ \text{Monitor Circuit} & \textcircled{O} & \underline{31} & \underline{32} \end{array}$	M20	HS5D-03RNM	HS5D-03ZRNM

Standard stock items in bold.

Actuator Keys & Accessories

ltem	Part Number	Description
- So	HS9Z-A51	Straight
Too A	HS9Z-A51A	Straight w/rubber bushings
	HS9Z-A52	Right-angle
00	HS9Z-A52A	Right-angle w/rubber bushings
A	HS9Z-A55	Angle Adjustable (vertical/horizontal)
(Se	HS9Z-A5P	Plug Actuator
-	HS9Z-SH5	Sliding Actuator
and a	HS9Z-PH5	Padlock Hasp

Actuators are not included and must be ordered separately.

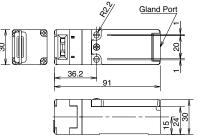


Specifications

Conforming to Standards	ISO14119, EN1088, IEC60947-5-1, EN60947-5-1 (TÜV approval), GS-ET-15 (TÜV approval), UL508, CSA C22.2 No. 14, GB14048.5 (CCC approval), IEC60204-1/EN60204-1 (applicable standards for use)							
Operating Temperature	-30 to +70°C (no freezing)							
Storage Temperature	-40 to	-40 to +80°C (no freezing)						
Relative Humidity	45 to 8	5% (no condensation)						
Rated Insulation Voltage (U _i)	300V							
Degree of Protection	IP67 (IEC60529)							
Actuator Operating Speed	0.05 to 1.0m/s							
Direct Opening Travel	10mm minimum							
Direct Opening Force	50N minimum							
Thermal Current (I _{th})	10A							
	Rated Voltage (U _e) 30V 125V 250V				250V			
	AC	Resistive load (AC-12)	10A	10A	6A			
Rated Current (I _e)*	AU	Inductive Load (AC-15)	10A	5A	3A			
	DC	Resistive load (DC-12)	8A	2.2A	1.1A			
	00	Inductive Load (DC-13)	4A	1.1A	0.6A			
Minimum Applicable Load (reference)		DC, 1mA (Applicable range ons and load types.)	may vary	with oper	ating			
Operating Frequency	900 ope	erations per hour						
Mechanical Life	1,000,0	00 operations minimum (GS	S-ET-15)					
Electrical Life	1,000,0	100,000 operations minimum (AC-12 250V, 6A) 1,000,000 operations minimum (24V AC/DC,100mA) (operation frequency: 900 operations per hour)						
Weight (approx.)	Plastic	head: 80g, Metal head: 110	g					

*TÜV rating: AC-15 3A/250V, DC-13 4A/30V

Dimensions (mm)



Full Size HS1B

HS1B features:

- Rugged aluminum die-cast housing
- Direct Opening Action
- Available with or without an indicator (red or green)
- Flexible Installation: Two actuator entries and three conduit ports are provided
- Select from two circuit configurations (1NO-1NC or 2NC).
- IP67





Part Numbers

Model	Contact Configuration	Pilot Light	Part Number
		Without	HS1B-11R
	1NC-1NO	Red LED	HS1B-114R-R
A w N → Main Circuit Auxiliary Circuit	1110-1110	Green LED	HS1B-114R-G
		Without	HS1B-02R
	2NC	Red LED	HS1B-024R-R
A W N A	2110	Green LED	HS1B-024R-G

Standard stock items in bold.

Actuator Keys & Accessories

Appearance	Part Number	Description
	HS9Z-A1	Straight Actuator (Mainly for sliding doors)
<u>م</u>	HS9Z-A2	Right-angle Actuator (Mainly for rotating doors)
S	HS9Z-A3	Adjustable Actuator
\checkmark	HS9Z-T1	Key Wrench (included with switch)
•	HS9Z-P1	Conduit Opening Plug

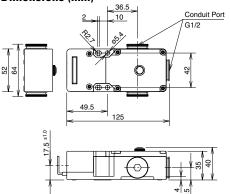
Actuators are not included and must be ordered separately.



Specifications

Conforming to S	Standards	IEC60947-5-1, EN60947-5-1, GS-ET-15, UL508, CSA C22.2 No. 14			3,	
Operating Temp	perature	-20	to +70°C (no freezing)			
Storage Tempe	rature	-40	to +80°C			
Relative Humid	ity	45 to 85% (no condensation)				
Rated Insulatio	n Voltage (U _i)	300\	/ (between LED and grour	nd: 60V)	
Degree of Prote	ection	IP67	(IEC60529)			
Actuator Opera	ting Speed	0.05	to 1.0m/s			
Direct Opening	Travel	11m	m minimum			
Direct Opening	Force	20N minimum				
Thermal Current (I _{th})						
		Rate	ed Voltage (U _e)	30V	125V	250V
Rated Operating Current (I_)		AC Resistive load (AC-12) Inductive load (AC-15)		10A 10A	10A 5A	6A 3A
		DC Resistive load (DC-12) Inductive load (DC-13)		8A 4A	2.2A 1.1A	1.1A 0.6A
Operating Frequ	Jency	900	operations/hour			
Mechanical Life		1,00	0,000 operations			
Electrical Life		100,	000 operations (rated loa	d)		
Recommended Protection	Short Circuit	250V, 10A fuse (Type D01 based on IEC60269-1, 60269-2)				
	Operating Voltage	24V	DC			
Indicator	Current	10mA				
	Light Source	LED lamp				
	Lens Color	Red or Green (12mm dia. Lens)				
Weight (approx	approx) 280g					

Dimensions (mm)



Subminiature

HS6E features:

- Compact body: 75 × 15 × 75mm 15mm wide, thinnest solenoid interlock switch in the world
- Reversible mounting and angled cable allow four actuator insertion directions
- Energy saving: 24V DC, 110mA (solenoid: 100mA, LED: 10mA)
- Manual unlocking possible on three sides
- LED indicator shows solenoid operation
- 500N locking retention force





Part Numbers

Mechanical Spring Lock (power sole	noid to u	nlock)	Solenoid Lock (remove power to solenoid to unlock)			
Contact Configuration	Cable Length	Part Number	Contact Configuration	Cable Length	Part Number	
(Actuator inserted) (Solenoid OFF)			(Actuator inserted) (Solenoid ON)			
Main Circuit: $\bigcirc \underline{11} + \underline{12} \underline{41} + \underline{42}$ Monitor Circuit: $\bigcirc \underline{21} + \underline{22} \underline{53} \underline{54}$ Monitor Circuit: $\ominus \underline{31} + \underline{32}$	1m 3m 5m	HS6E-L44B01-G HS6E-L44B03-G HS6E-L44B05-G	Main Circuit: $\bigcirc 11 + 12 + 41 + 42$ Monitor Circuit: $\bigcirc 21 + 22 + 53 + 54$ Monitor Circuit: $\bigcirc 31 + 32$	1m 3m 5m	HS6E-L7Y4B01-G HS6E-L7Y4B03-G HS6E-L7Y4B05-G	
Main Circuit: $\bigcirc 11 + 12 41 + 42$ Monitor Circuit: $\bigcirc 21 + 22 51 + 52$ Monitor Circuit: $\bigcirc 31 + 32$	1m 3m 5m	HS6E-M44B01-G HS6E-M44B03-G HS6E-M44B05-G	Main Circuit: $\bigcirc 11$ 124142Monitor Circuit: $\bigcirc 21$ 22 51 52 Monitor Circuit: $\bigcirc 31$ 32	1m 3m 5m	HS6E-M7Y4B01-G HS6E-M7Y4B03-G HS6E-M7Y4B05-G	
Main Circuit: $\bigcirc 11$ 124142Monitor Circuit: $\bigcirc 21$ 225354Monitor Circuit: 33 34	1m 3m 5m	HS6E-N44B01-G HS6E-N44B03-G HS6E-N44B05-G	Main Circuit: $\bigcirc 11$ 124142Monitor Circuit: $\bigcirc 21$ 225354Monitor Circuit: 33 34	1m 3m 5m	HS6E-N7Y4B01-G HS6E-N7Y4B03-G HS6E-N7Y4B05-G	
Main Circuit: $\bigcirc 11$ 12 41 42 Monitor Circuit: $\bigcirc 21$ 22 51 52 Monitor Circuit: 33 34	1m 3m 5m	HS6E-P44B01-G HS6E-P44B03-G HS6E-P44B05-G	Main Circuit: $\bigcirc 11$ 124142Monitor Circuit: $\bigcirc 21$ 22 51 52 Monitor Circuit: 33 34	1m 3m 5m	HS6E-P7Y4B01-G HS6E-P7Y4B03-G HS6E-P7Y4B05-G	

1. Contact configuration shows the contact status when actuator is inserted and solenoid off for spring lock.

2. Contact configuration shows the contact status when actuator is inserted and solenoid on for solenoid lock.

3. Indicator LED color is green.

4. Actuator keys are not supplied with the interlock switch and must be ordered separately.

5. Standard stock items in bold.



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Actuator Keys & Accessories

ltem	Part Number	Description
00	HS9Z-A61	Straight
00.1	HS9Z-A62	Right-angle (actuator retention force 100N max)
-	HS9Z-A62S	Right-angle with Mounting Plate
	HS9Z-A65	Angle adjustable with hex screw (horizontal or vertical configurable)
	HS9Z-A66	Angle Adjustable (horizontal or vertical configurable)
$\overline{}$	HS9Z-T3	Manual Unlock Key (long type - metal)

Specifications

Conforming to Stan	dards	UL 508, CSA C22.2, No. 14, ISO 14119, IEC 60947-5-1, EN 60947-5-1 (TÜV approval), EN 1088 (TÜV approval), GS-ET-19, IEC 60204-1/EN 60204-1 (applicable standards for use)					
Operating Temperation	ture	—25 t	o +50°C (no freezing)				
Storage Temperatu	re	-40 to +80°C (no freezing)					
Relative Humidity		45 to 85% (no condensation)					
Rated Insulation Vo	Itage (U _i)		300V (door monitor contact), 150V (lock monitor contact), 30V (between LED or solenoid and ground)				
Electric Shock Prote	ection Class	Class	II (IEC 61140)				
Degree of Protectio	n	IP67 (IEC 60529)				
Actuator Operating	Speed	0.05 t	to 1.0m/s				
Direct Opening Trav	rel	8.0mr	n minimum				
Direct Opening Ford	e	60N r	ninimum				
			ating temperature to 35°C)		up to 2 ci 3 or more	rcuits) e circuits)	
Thermal Current (I _{th})		Operating temperature (35 to 50°C)			1.0A (1 circuit) 0.5A (2 or more circuits)		
		Rated	l Voltage (U _e)		30V	125V	250V
	Main & Lock	AC	Resistive load (AC-1 Inductive load (AC-1	,	-	2A 1A	_
Rated Operating	Monitor Circuit	DC	Resistive load (DC-12) Inductive load (DC-13)		2A 1A	0.4A 0.22A	-
Current (I _e)	Door	AC	Resistive load (AC-12) Inductive load (AC-15)		-	2.5A 1.5A	1.5A 0.75A
	Monitor Circuit	DC	Resistive load (DC-12) Inductive load (DC-13)		2.5A 2.3A	1.1A 0.55A	0.55A 0.27A
Minimum Applicabl (reference)	e Load	3V A(C/DC, 5 mA				
Actuator Retention	Force	500N	maximum (GS-ET-19)				
Operating Frequence	зy	900 o	perations/hour				
Mechanical Life		1,000	,000 operations minin	num (GS	-ET-19)		
Electrical Life		100,000 operations minimum (rated load) 1,000,000 operations minimum (24V AC/DC, 100mA) (operating frequency 900 operations/hr)					
Cable		UL24	64, No. 22 AWG (12-c	ore: 0.3r	nm² or ea	quivalent/core	e)
Cable Diameter		ø7.6m	าท				
Weight		220g	- 1m cable type, 410g	- 3m ca	ble type,	600g - 5m ca	ble type

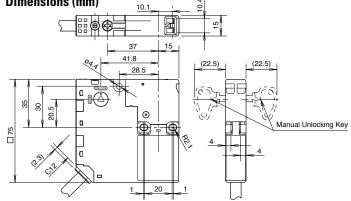
1. Actuators are not included and must be ordered separately. 2. Plastic Manual Unlock Key supplied with each unit



UL, c-UL rating: Main/Lock monitor circuit: 125V AC, 1A Pilot duty, 125V DC, 0.22A Pilot duty Door monitor circuit:240V AC, 0.75A Pilot duty250V DC, 0.27A Pilot duty
 TÜV rating: Main/Lock monitor circuit: AC-15 125V/1A, DC-13 125V/0.22A

Door monitor circuit: AC-15 240V/0.75A, DC-13 250V/0.27A





Miniature

HS5E features:

- World's smallest 4 contact solenoid interlock switch (35 x 40 x 146mm)
- Flexible installation the head can rotate, allowing 8 different actuator entries
- Metal actuator entry slot ensures long life
- Actuator locking strength is 1400N minimum (GS-ET-19)
- LED pilot light indicates the solenoid status
- IP67 (IEC60529)

Part Numbers





Solenoid Lock (remove power to solenoid to unlock)

Mechan	ical Spring Lock (pov	wer sole	noid to un	llock)	
Contact Ar	rangement	Pilot Light	Cable Length	Part Number	
(Actuato	Monitor Lock Monitor r inserted) (Solenoid OFF)	No	1m 3m 5m	HS5E-A4001 HS5E-A4003 HS5E-A4005	
Main Circuit: $\bigcirc 11$ Monitor Circuit: 23 Monitor Circuit:	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Yes	1m 3m 5m	HS5E-A4401-G HS5E-A4403-G HS5E-A4405-G	Main Moni Moni
Main Circuit: ⊖1 <u>1</u> Monitor Circuit: 23	<u>12 41</u> 42 24	No	1m 3m 5m	HS5E-B4001 HS5E-B4003 HS5E-B4005	Vain Vonite
Monitor Circuit:	5 <u>1⊦ 5</u> 2	Yes	1m 3m 5m	HS5E-B4401-G HS5E-B4403-G HS5E-B4405-G	Vonito
Main Circuit: ⊖1 <u>1</u> + Monitor Circuit: ⊖21+		No	1m 3m 5m	HS5E-D4001 HS5E-D4003 HS5E-D4005	Main Monit
Monitor Circuit:	5 <u>1+_52</u>	Yes	1m 3m 5m	HS5E-D4401-G HS5E-D4403-G HS5E-D4405-G	Monit
Monitor Circuit: $\ominus \underline{11}$ Monitor Circuit: $\underline{23}$ Monitor Circuit:	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Yes	1m 3m 5m	HS5E-VA4401-G HS5E-VA4403-G HS5E-VA4405-G	Monit Monit Monit
Monitor Circuit: $\bigcirc 11$ Monitor Circuit: $\bigcirc 21$ Monitor Circuit:		Yes	1m 3m 5m	HS5E-VD4401-G HS5E-VD4403-G HS5E-VD4405-G	Monit Monit Monit
Main Circuit: $\bigcirc 11$ Main Circuit: $\bigcirc 21$	$\begin{array}{cccc} 12 & 41 \\ 22 & 51 \\ 52 \end{array}$	Yes	1m 3m 5m	HS5E-DD4401-G HS5E-DD4403-G HS5E-DD4405-G	
Main Circuit: $\bigcirc 11$ Monitor Circuit: 23 Monitor Circuit:	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Yes	1m 3m 5m	HS5E-A44L01-G HS5E-A44L03-G HS5E-A44L05-G	Rear Butte
Main Circuit: $\bigcirc 11$ Monitor Circuit: $\bigcirc 21$ Monitor Circuit:		Yes	1m 3m 5m	HS5E-D44L01-G HS5E-D44L03-G HS5E-D44L05-G	- Unlock Tyj

Contact Arrangement	Pilot Light	Cable Length	Part Number
Door Monitor (Actuator inserted) (Solenoid ON)	No	1m 3m 5m	HS5E-A7Y001 HS5E-A7Y003 HS5E-A7Y005
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Yes	1m 3m 5m	HS5E-A7Y401-G HS5E-A7Y403-G HS5E-A7Y405-G
Viain Circuit: ⊖1 <u>1 + 12 41 + 4</u> 2 Vionitor Circuit: 2 <u>3 + 2</u> 4	No	1m 3m 5m	HS5E-B7Y001 HS5E-B7Y003 HS5E-B7Y005
Nonitor Circuit: 51+ 52	Yes	1m 3m 5m	HS5E-B7Y401-G HS5E-B7Y403-G HS5E-B7Y405-G
Main Circuit: ⊕1 <u>1 + 12 41 + 4</u> 2 Monitor Circuit: ⊕2 <u>1 + 2</u> 2	No	1m 3m 5m	HS5E-D7Y001 HS5E-D7Y003 HS5E-D7Y005
Monitor Circuit: 5 <u>1+5</u> 2	Yes	1m 3m 5m	HS5E-D7Y401-G HS5E-D7Y403-G HS5E-D7Y405-G
Monitor Circuit: $\ominus 11_{+}$ 12 41_{+} 42Monitor Circuit:2324Monitor Circuit:5354	Yes	1m 3m 5m	HS5E-VA7Y401-G HS5E-VA7Y403-G HS5E-VA7Y405-G
Monitor Circuit: $\ominus 11 + 12$ $41 + 42$ Monitor Circuit: $\ominus 21 + 22$ Monitor Circuit: $51 + 52$	Yes	1m 3m 5m	HS5E-VD7Y401-G HS5E-VD7Y403-G HS5E-VD7Y405-G



1. Contact configuration shows the contact status when actuator is inserted and solenoid off for spring lock.

2. Contact configuration shows the contact status when actuator is inserted and solenoid on for solenoid lock.

3. Main circuit has door and lock monitor contacts wired in series internally.

4. Standard stock items in bold.

Actuator Keys & Accessories

ltem	Part Number	Description
30	HS9Z-A51	Straight
	HS9Z-A52	Right-angle
	HS9Z-A53	Angle adjustable vertical operation
	HS9Z-A55	Angle adjustable horizontal/vertical operation ^{Note 1}
	HS9Z-A5P	Plug Actuator (allows switch to be used as interlock plug unit)
Contrad .	HS9Z-PH5	Padlock Hasp (prevents unauthorized insertion of actuator)
	HS9Z- SP51	Mounting Plate (allows easy mounting to aluminum frames)
	HS9Z-T3	Manual unlock key (long type - metal)
-	HS9Z-SH5	Sliding Actuator
1. The actuator tensi 2. Actuators are not		500N minimum. must be ordered separately

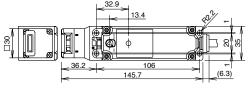
Specifications

opcomou	dons							
Conforming	to Standards	(BG a	ISO14119, IEC60947-5-1, EN60947-5-1 (TÜV approval), EN1088, GS-ET-19 (BG approval), UL508, CSA C22.2, No. 14, GB 140485.5 (CCC approval) IEC60204-1/EN60204-1					
Operating T	emperature	—25 t	o 50°C (no freezing)					
Relative Hu	midity	45 to	85% (no condensation)					
Rated Insula	ation Voltage (U _i) ^{Note 1}	250V	(between LED, solenoid and	d grounding:	30V)			
Storage Ten	nperature	—40 t	-40 to +80°C (no freezing)					
Actuator Op	perating Speed	0.05 to 1.0m/s						
Direct Open	ing Travel	Actuator HS9Z-A51: 11mm minimum Actuator HS9Z-A52/A53/A55: 12mm minimum						
Direct Open	ing Force	80N I	ninimum					
Thermal Cu	rrent (I _{th})	2.5A						
		Rated	l Voltage (U _e)	30V	125V	250V		
		10	Resistive load (AC-12)	—	2A	1A		
Rated Operating Current $(I_e)^{Note 2}$		AC	Inductive Load (AC-15)	—	1A	0.5A		
		DC	Resistive load (DC-12)	2A	0.4A	0.2A		
			Inductive Load (DC-13)	1A	0.22A	0.1A		
Minimum A (reference)	pplicable Load	3V A	C/DC, 5mA					
Actuator Re	tention Force	1400	N minimum (GS-ET-19)					
Operating F	requency	900 c	perations per hour					
Mechanical	Life	1,000	,000 operations minimum (0	GS-ET-19)				
Electrical Li	fe		0 operations minimum (operating frequency 900 operations per ated load AC-12, 250V, 1A)					
Cable		UL2464, No. 21AWG - 8-core: 0.5mm ² or equivalent/core (HS5E-V types: No. 22AWG - 12-core :0.3mm ² on equivalent/ core)						
Cable Diam	eter	ø7.6mm						
0 1	Rated Voltage	24V [DC (100% duty cycle)					
Solenoid	Current	266m	A (initial value)					
Dilationha	Rated Voltage	24V [00					
Pilot Light	Current	10mA						
Weight (app	prox.)	400g - 1m cable type, 580g - 3m cable type, 760g - 5m cable type						

UL rating: 125V
 TUV, BG rating: AC-15, 0.5A/250V, DC-13, 0.22A/125V UL, c-UL rating: Pilot duty AC 0.5A/125V, Pilot duty DC 0.22A/125V



Dimensions (mm)







Full Size

HS1E features:

- Plastic Housing: Lightweight
- 1500N locking retention force
- Available with a red or green indicator
- Choose from 4 circuit configurations
- Flexible Installation: The actuator can be accessed from two directions
- Ease of Wiring: M3.5 termination screws





Part Numbers (Mechanical Spring Lock only)

Contact Configuration		LED	Standard	Manual Unlock Key
	Monitor Circuit	None	HS1E-40R	HS1E-40KR
Main circuit: 1NC + 1NC Monitor circuit: 1NO/1NO	→ → → → → → → → → → → → → → → → → → →	Green	HS1E-44R-G	HS1E-44KR-G
	$\begin{array}{c} & & \\ & & \\ & & \\ & \\ & \\ & \\ & \\ & \\ $	Red	HS1E-44R-R	HS1E-44KR-R
	Monitor Circuit	None	HS1E-140R	HS1E-140KR
Main circuit: 1NC + 1NC Monitor circuit: 1NO	Main Circuit	Green	HS1E-144R-G	HS1E-144KR-G
	$ \begin{array}{c} & & \\ & & $	Red	HS1E-144R-R	HS1E-144KR-R
	1 2 Monitor Circuit	None	HS1E-240R	HS1E-240KR
Main circuit: 1NC + 1NC Monitor circuit: 1NC + 1NC	G G → Main Circuit G 4 4 	Green	HS1E-244R-G	HS1E-244KR-G
	$ \begin{array}{c} & & & \\ & & & \\ & & & \\ \hline \\ \\ & & \\ \hline \\ \\ & & \\ \hline \\ \\ & & \\ \hline \\ \\ \\ & & \\ \hline \\ \\ \hline \\ \\ \\ & \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \hline \\ $	Red	HS1E-244R-R	HS1E-244KR-R
	1 2 Monitor Circuit	None	HS1E-340R	HS1E-340KR
Main circuit: 1NC + 1NC Monitor circuit: 1NC	→ → → → → → → → → → → → → → → → → → →	Green	HS1E-344R-G	HS1E-344KR-G
	Contacts are linked to $7 \oplus 10^{\circ}$ the solenoid mechanically.	Red	HS1E-344R-R	HS1E-344KR-R

1. Key wrench for TORX screws (HS9Z-T1) is supplied with the interlock switch.

2. Actuator is not supplied with the interlock switch, and must be ordered separately.

3. TORX is a registered trademark of Camcar Textron.

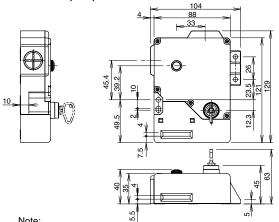
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Actuator Keys & Accessories

ltem	Part Number	Description
-	HS9Z-A1	Straight Actuator
	HS9Z-A2	Right-angle Actuator
	HS9Z-A3	Angle Adjustable Actuator
\checkmark	HS9Z-T1	Key Wrench (included with switch)
	HS9Z-P1	Conduit Opening Plug (G1/2)

Actuators are not included and must be ordered separately.

Dimensions (mm)





Specifications

-										
Conforming to	o Standards	EN1088, IEC60947-5-1, EN60947-5-1(TUV), IS014119, GS-ET-19 (BG), UL508, CSA C22.2 No. 14, GB14048.5 (CCC approval), IEC60204-1, EN60204-1 (applicable standards for use)								
Operating Ter	nperature	-20 to +40°C (no freezing)								
Storage Temp	perature	-40 to +80°C								
Relative Hum	idity	45 to 85% (no condensation)								
Electric Shock	k Protection	Class I	Class II (according to IEC61140)							
Degree of Pro	otection	IP67 (IE	EC6052	29)						
Vibration	Operating Extremes	10 to 5	5Hz (a	mplitude 0.35mm)						
Resistance	Damage Limits	10Hz (a	amplitu	ude 1.5m)						
Shock Resista	ance	1,000m	n/sec²	(approx. 100G)						
Actuator Rete	ention Force	1,500N	l minin	num (per GS-ET-19)						
Actuator Operating Speed		0.05 to	1.0m/	's						
Direct Openin	11mm	minim	um							
Direct Openin	20N m	inimur	n							
Thermal Current (I _{th})		Main c	ircuit:	10A, Auxiliary circuit: 3A						
		Rated	Voltag	e (U _e)	30V	125V	250V			
		Main Circuit	AC	Resistive load (AC-12) Inductive load (AC-15)	10A 10A	10A 5A	6A 3A			
Rated Operating Current (I_e)	Circ	DC	Resistive load (DC-12) Inductive load (DC-13)	6A 3A	_ 0.9A	-				
		iary uit	AC	Resistive load (AC-12) Inductive load (AC-15)	-	3A -	3A 3A			
		Auxiliary Circuit	DC	Resistive load (DC-12) Inductive load (DC-13)	3A _	_ 0.9A	-			
Operating Fre	quency	900 operations/hour max.								
Mechanical L	ife	1,000,000 operations min. (at full rated load) 900 ops/hr (AC-12/250V, 6A)								
Electrical Life		100,000 operations (rated load)								
	Operating Voltage	24V D0	C (1009	% duty cycle)						
	Current	292mA	(initia	al value)						
	Coil Resistance	102Ω (a	at 20º0	C)						
Solenoid Unit	Pickup Voltage	20.4V r	maxim	um (at 20°C)						
Unit	Drop Out Voltage	2.4V m	inimur	m (at 20°C)						
	Allowable Voltage	2.4V minimum (at 20°C) 26.4V max (continuous)								
	Insulation Class	Class F								
	Operating Voltage	24V DC								
	Current	10mA								
Indicator	Light Source	LED lar	mp							
	Lens Color	Red or	Green							
Weight (appr	(xo	500g								



Full Size

HS1L features:

- 3,000N locking retention force
- LED indicator
- · Energy-efficient solenoid
- 6 contacts with easy-to-wire terminations
- M3 terminal screws for easy wiring





Part Numbers

Mechanical Spring Lock (power solenoid to unlock)				
Contact Configura	tion	Conduit Size	LED	Part Number
Door Monitor LED (Actuator Inserted)	Lock Monitor (Solenoid OFF)	C1/2	Red	HS1L-R44KMSR-R
	(+) (-) A2 A1	G1/2	Green	HS1L-R44KMSR-G
Main circuit: $\ominus 11 + 12$	41 <u>42</u>	PG13.5	Red	HS1L-R44KMSRP-R
Monitor circuit: $\bigcirc 21$ 22 Monitor circuit: 33 34		FG13.0	Green	HS1L-R44KMSRP-G
Monitor circuit: Monitor circuit:	5 <u>1</u> <u>52</u> 61 <u></u> 62	M20	Red	HS1L-R44KMSRM-R
Monitor circuit:	011 02	M20	Green	HS1L-R44KMSRM-G
		G1/2	Red	HS1L-DQ44KMSR-R
Main circuit: $\bigcirc 11 + 12$ Main circuit: $\bigcirc 21 + 22$ Monitor circuit: 33 34	41, 42	G1/2	Green	HS1L-DQ44KMSR-G
	<u>51 52</u>	PG13.5	Red	HS1L-DQ44KMSRP-R
Monitor circuit: <u>35</u> <u>34</u>	<u>63 64</u>	PG13.5	Green	HS1L-DQ44KMSRP-G
		M20	Red	HS1L-DQ44KMSRM-R
			Green	HS1L-DQ44KMSRM-G
		C1/2	Red	HS1L-DT44KMSR-R
Main circuit: $\ominus 11 + 12$	41 42	G1/2	Green	HS1L-DT44KMSR-G
Main circuit: $\bigcirc 21$ $\bigcirc 21$ $\bigcirc 22$ Monitor circuit: $\bigcirc 31$ $\leftarrow 32$	51 52	PG13.5	Red	HS1L-DT44KMSRP-R
Monitor circuit:	<u>61 62</u>	FU13.5	Green	HS1L-DT44KMSRP-G
		M20	Red	HS1L-DT44KMSRM-R
		M20	Green	HS1L-DT44KMSRM-G

Contact Con	figuration		Conduit Size	LED	Part Number
	onitor Loc nserted) (Sol	k Monitor enoid ON)	G1/2	Red	HS1L-R7Y4KMSR-R
(+) - ⁽⁻⁾ X2 X1 _	(+) A2_	(-) A1	01/2	Green	HS1L-R7Y4KMSR-G
	12 41	 	PG13.5	Red	HS1L-R7Y4KMSRP-R
Main circuit: \bigcirc <u>11</u> Monitor circuit: \bigcirc <u>21</u>	12 41- 22	42	1013.5	Green	HS1L-R7Y4KMSRP-G
Monitor circuit: <u>33</u> Monitor circuit:	<u>34</u> 51	+ 52	M20	Red	HS1L-R7Y4KMSRM-R
Monitor circuit:	61		IVIZU	Green	HS1L-R7Y4KMSRM-G
			G1/2	Red	HS1L-DQ7Y4KMSR-R
Main circuit: $\ominus 11$		42	01/2	Green	HS1L-DQ7Y4KMSR-G
Main circuit: $\ominus 21$ Monitor circuit: 33	<u>22 51</u> 34	<u>52</u>	PG13.5	Red	HS1L-DQ7Y4KMSRP-R
Monitor circuit:	<u>63</u>	64	PG13.5	Green	HS1L-DQ7Y4KMSRP-G
			M20	Red	HS1L-DQ7Y4KMSRM-R
			IVIZU	Green	HS1L-DQ7Y4KMSRM-G
			G1/2	Red	HS1L-DT7Y4KMSR-R
Main circuit: ⊖ <u>11</u>	12 41		01/2	Green	HS1L-DT7Y4KMSR-G
Main circuit: $\bigcirc 21$ Monitor circuit: $\bigcirc 31$	<u>22 51</u> 32	52	PG13.5	Red	HS1L-DT7Y4KMSRP-R
Monitor circuit:	61	<u>62</u>	FU13.5	Green	HS1L-DT7Y4KMSRP-G
			M20	Red	HS1L-DT7Y4KMSRM-R
			IVIZU	Green	HS1L-DT7Y4KMSRM-G

Solenoid Lock (remove power to solenoid to unlock)

1. Contact configuration shows the contact status when actuator is inserted and solenoid off for spring lock.

2. Contact configuration shows the contact status when actuator is inserted and solenoid on for solenoid lock.

3. Actuators are not supplied with the interlock switch and must be ordered separately.

4. Standard stock items in bold.

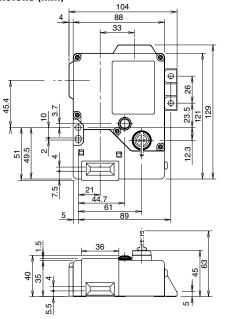


Actuator Keys & Accessories

ltem	Part Number	Description
	HS9Z-A1S	Straight Actuator
00,	HS9Z-A2S	L-shaped Actuator
<u></u>	HS9Z-A3S	Angle Adjustable Actuator (vertical operation only)
\checkmark	HS9Z-T1	Key Wrench (included with switch)
	HS9Z-P1	Conduit Opening Plug (G1/2)

Actuators are not included and must be ordered separately.

Dimensions (mm)



-								
Conforming	to Standards	ISO14119, IEC60947-5-1. EN60947-5-1 (TÜV approval), GS-ET-19 (TÜV approval). UL508, CSA C22.2 No. 14 IEC60204-1/EN60204-1 (applicable standards for use)						
Operating T	emperature	–20 te	o +55°C (no freezing)					
Storage Ter	nperature	-40 t	o +80°C (no freezing)					
Relative Hu	imidity	45 to	85% (no condensation)					
Rated Insul	ation Voltage (U _i)	300V						
Overvoltage	e Category	Ш						
Electric Sho	ock Protection	Class II (IEC 61140)						
Degree of F	Protection	IP67 (IEC 60529)					
Shock Resis	stance	Dama	age limits: 1000m/s²					
Actuator Re	etention Force	30001	N minimum (GS-ET-19)					
Actuator Op	perating Speed	0.05 t	to 1.0m/s					
Direct Opening Travel			n minimum					
Direct Oper	ning Force	50N r	ninimum					
Thermal Cu	rrent (I _{th})	10A	10A					
		Rateo	Rated Rated Voltage (U _e) 30V 12					
		AC	Resistive Load (AC-12)	10A	10A	6A		
Rated Oper Current (I)	ating	AU	Inductive Load (AC-15)	10A	5A	3A		
ourrone (r _e /		DC	Resistive Load (DC-12)	8A	2.2A	1.1A		
		DC	Inductive Load (DC-13)	4A	1.1A	0.6A		
Operating F	requency	900 operations per hour						
Mechanica	l Life	1,000,000 operations minimum (GS-ET-19)						
Electrical Li	fe	100,000 operations minimum (AC-15 3A/250V) 1,000,000 operations minimum (24V AC/DC, 100mA) (operating frequency 900 operations per hour)						
Solenoid Unit	Rated Operating Voltage	24V C	OC (100% duty cycle)					
Unit	Rated Current	200m	A (initial value)					
	Rated Operating Voltage	24V DC						
Indicator	Rated Current	10mA						
	Light Source	LED						
	Illumination Color	Greer	en (G), Red (R)					
Weight (app	prox.)	450g	(HS1L-DQ44)					

Minimum applicable load (reference value): 3V AC/DC, 5mA (Applicable range may vary with operating conditions and load types.)
 TÜV rating: AC-15 3A/250V, DC-13 4A/30V UL, c-UL rating: A300, Pilot duty: AC 3A/250V, Pilot duty: DC 4A/30V



Full Size

HS1C features:

- Rugged aluminum die-cast housing
- 1500N locking retention force
- Flexible Installation: The actuator can be accessed from two directions
- Select from four different circuit configurations
- IP67





Part Numbers (Mechanical Spring Lock Only)

Contact Configuration	Indicator LED	Part Number
Main Circuit: 1NC+1NC Auxiliary Circuit: 1N0/1N0	Green	HS1C-R44R-G
	Red	HS1C-R44R-R
Main Circuit: 1NC+1NC Auxiliary Circuit: 1NO	Green	HS1C-R144R-G
	Red	HS1C-R144R-R

Contact Configuration	Indicator LED	Part Number
Main Circuit: 1NC+1NC Auxiliary Circuit: 1NC+1NC	Green	HS1C-R244R-G
	Red	HS1C-R244R-R
Main Circuit: 1NC+1NC Auxiliary Circuit: 1NC	Green	HS1C-R344R-G
	Red	HS1C-R344R-R



HS1C

Actuator Keys & Accessories

Dimensions (mm)

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ltem	Part Number	Description			
	HS9Z-A1	Straight Actuator			
	HS9Z-A2	Right-angle Actuator			
<u>Sa</u>	HS9Z-A3	Adjustable Actuator			
\checkmark	HS9Z-T1	Key Wrench (included with switch)			
	HS9Z-P1	Conduit Opening Plug (G1/2)			
Actuators are not included and must be ordered separately.					

36.5

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23.5 26

125

65.4

Conduit Port G1/2

g

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47

95.2

Specifications

pecilicatio	119						
Conforming to S	Standards	EN1088, IEC60947-5-1, EN60947-5-1, GS-ET-19, UL508, GB 140485.5 (CCC approval), CSA C22.2 No. 14					
Operating Temp	perature	–20 to +40°C (no freezing)					
Storage Tempe	rature	-40 to	+80°C				
Relative Humid	ity	40 to 8	5% (no	o condensation)			
Rated Insulatio	n Voltage (U _i)	300V (between LED or solenoid and ground: 60V)					
Actuator Reten	tion Force	1,500N minimum					
Actuator Opera	ting Speed	0.05 to 1.0m/s					
Direct Opening	Travel	11mm minimum					
Direct Opening	Force	20N minimum					
Thermal Curren	t (I _{th})	Main circuit: 10A, Auxiliary circuit: 3A					
Rated Operating Current (I _e)		Rated Voltage (U)			30V	125V	250V
		Main Circuit	AC	Resistive load (AC-12) Inductive load (AC-15)	10A 10A	10A 5A	6A 3A
			DC	Resistive load (DC-12) Inductive load (DC-13)	6A 3A	_ 0.9A	-
		Auxiliary Circuit	AC	Resistive load (AC-12) Inductive load (AC-15)	-	3A —	3A 3A
			DC	Resistive load (DC-12) Inductive load (DC-13)	3A _	_ 0.9A	-
Operating Frequ	Jency	900 operations/hour max.					
Mechanical Life	9	1,000,0	100 ope	erations			
Electrical Life		100,000 operations (rated load)					
Recommended	Short Circuit Protection	250V, 10A fuse (Type D01 based on IEC60269-1, 60269-2)			9-2)		
Solenoid Unit	Operating Voltage	24V DC (100% duty cycle)					
Solehold Ohlt	Current	415mA (initial value)					
Indicator	Operating Voltage	24V DC					
	Current	10mA					
	Light Source	LED lamp					
	Lens Color	Red or Green					
Weight (approx) 660g							



FS1A Safety Controllers - Consolidate Multiple Safety Relays to One SmartSafety Relay

FS1A features:

- No programming required
- Easily replaces 2 3 safety relay control modules
- 8 or 24 pre-programmed logic safety circuits
- Connect with various types of safety inputs
- Monitor status of safety I/Os and error codes
- IEC 61508 integrity level 3, ISO 13849-1 performance level e and EN954-1 safety category 4 compliant

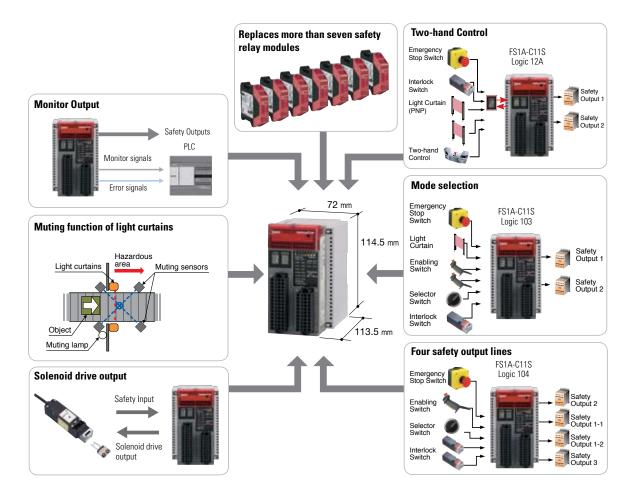




When you want a straightforward system that's safe, easy-to-install and won't cost an arm and a leg, an IDEC SafetyOne FS1A is the answer! The FS1A offers up to 24 pre-programmed logic safety circuits. That means you can configure a system without any programming, just by selecting one logic from either 8 (FS1A-C01S) or 24 (FS1A-C11S) to configure a safety system.

Unlike multiple safety relays, which require lots of cumbersome wiring and take up too much space, the entry-level safety controller makes it easy to consolidate basic safety circuits. At the same time they save space and minimize wiring. FS1A SafetyOne can easily replace two to three safety relay control modules with no programming required. Not only that, SafetyOne can be configured simply by flipping dip switches to select a logic. One module can connect with various safety components such as Emergency Stop switches, light curtains, Interlock switches, two hand controls and auxiliary components such as muting lights, sensors and much more.

FS1A is UL listed, TUV rated and CE marked, as well as meets IEC 61508 integrity level 3, ISO 13849-1 performance level e and EN954-1 safety category 4.



Hand Protection

With mounting brackets that rotate, no connection necessary between emitter

and receiver, and configuration that can be accomplished without external control

units or supplementary cables, the SG4 Type 4 light curtains are one of the best

available on the market today. In addition, the light curtains can be aligned using

the 7 segment display on either the emitter or receiver.

SG Safety Light Curtains - a Quality, Affordable Hazardous Area Access Solution

SG Light Curtain features:

- Integrated light curtain for Finger or Body Protection
- Operating distance up to 6m or 19m
- Heights from 150 to 1800mm
- Compact 32 x 37mm profile
- · Sturdy profile and rotating brackets
- · User interface with display
- Alignment function



Hand Protection



The SG2 Type 2 series offers two models, the SG2 basic and the SG2 extended. Available functions include Test/Restart, EDM and Anti-interference. With very fast response times, the SG2 series can be installed right next to a hazardous area improving productivity. The rotating mounting brackets make installation and the alignment of the emitting and receiving units easy, even at long distances and in applications that use mirrors.

Enabling Switches - Ensuring Operator Safety



Finger Protection

IDEC enabling switches are used in numerous pendants and grip switches around the world. Developed using IDEC's fundamental philosophy to provide high reliability in products, our enabling switches provide optimal safety.

An enabling switch is a 3-position (OFF-ON-OFF) switch to allow machine operation only when the switch is lightly pressed and held in the middle position (position 2). Because it disables machine operation when released

(position 1) or further depressed (position 3) by a panicked operator, the safety of operators is ensured. When operators use pendants to perform teaching, system changeover and maintenance, they must have protection against unpredictable machine operation. Therefore teaching pendants are equipped with 3-position enabling switches.

E-Stops



www.IDEC.com/usa/estop

For over 60 years, IDEC has manufactured reliable, high-quality Emergency Stop switches and consistently led the market in new technology and innovation for machine operator safety. By surpassing current international standards, IDEC E-Stops are the safest in the world.

RF1V Force Guided Relays



www.IDEC.com/relays

Force guided relays are used in safety circuits to detect failures such as contact welding and damage to the contact spring. The contacts of these relays are "forced" to open and close by a guide connected to the armature. Available in four or six pole models, all relays have 6A rated contacts. RF1V can be mounted directly on a printed circuit board or can use DIN RAIL or PCB mount sockets.

Product Information

Safety Products www.IDEC.com/safety

Product Support

Technical support: support@IDEC.com

Find your local IDEC Representative or Distributor: www.IDEC.com/usa/locator

Phone: 800-262-IDEC



www.IDEC.com/safety



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Largest Supplier of Electrical and Electronic Components

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