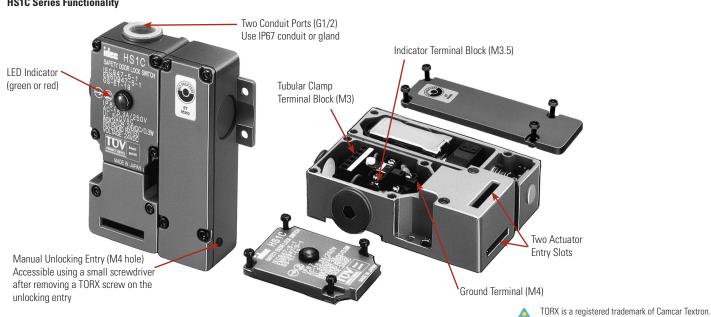
HS1C Full Size Solenoid Locking Switches

Key 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



HS1C Series Functionality



Part Numbers (Mechanical Spring Lock Only)

ntact Configuration	Indicator LED	Part Number	Contact Configuration	Indicator LED	Part Number
Monitor Circuit	Green	HS1C-R44R-G	$\begin{bmatrix} 1 \\ 2 \\ -7 \\ -7 \\ -7 \\ -7 \\ -7 \\ -7 \\ -7 $	Green	HS1C-R244R-G
Solenoid Power Contacts are linked to the solenoid mechanically. $7 \oplus 8 \oplus 8$	Red	HS1C-R44R-R	Solenoid Power Indicator Contacts are linked to the solenoid mechanically.	Red	HS1C-R244R-R
Monitor Circuit 70 Main Circuit	Green	HS1C-R144R-G	Monitor Circuit	Green	HS1C-R344R-G
$\int_{-}^{-} - \int_{-}^{+} \int_{-}^{+} \int_{-}^{+} Solenoid Power}$ Contacts are linked to the solenoid mechanically.	Red	HS1C-R144R-R	Solenoid Power Contacts are linked to the solenoid mechanically. 7°	Red	HS1C-R344R-R

Standard stock items in bold



Overview

IDEC 347

HS1C

Solenoid Locking Safety Switches

Actuator Keys & Accessories

Appearance	Part Number	Description	Appearance Part Number		Description		
	HS9Z-A1	Straight Actuator	\checkmark	HS9Z-T1	Key Wrench (included with switch)		
	HS9Z-A2	Right-angle Actuator	\mathbf{O}	HS9Z-P1	Conduit Opening Plug (G1/2)		
	HS9Z-A3	Adiustable Actuator					

Specifications

Conforming to Standards		EN1088, IEC60947-5-1, EN60947-5-1, GS-ET-19, UL508, GB 140485.5 (CCC approval), CSA C22.2 No. 14				
Operating Temperature		-20 to +40°C (no freezing)				
Storage Temp	erature	-40 to +80°C				
Relative Hum	dity	40 to 85% (no condensation)				
Altitude		2,000m maximum				
Rated Insulat	ion Voltage (U _i)	300V (between LED or solenoid and ground: 60V)				
Impulse With	stand Voltage (U _{imp})	4 kV (between LED or solenoid and ground: 2.5 kV)				
Insulation Resistance		$\begin{array}{llllllllllllllllllllllllllllllllllll$				
Electric Shoc	k Protection Class	Class 1 (IEC61140)				
Pollution Deg	ree	3 (IEC60947-5-1)				
Degree of Pro	tection	IP67 (IEC60529)				
Vibration	Operating Extremes	10 to 55 Hz, amplitude 0.5 mm				
Resistance	Damage Limits	60 m/sec ² (approx. 6G)				
Shock Resista	ance	1,000 m/s ² (approx. 100G)				
Actuator Rete	ention Force	1,500N minimum				
Actuator Operating Speed		0.05 to 1.0m/s				
Direct Opening Travel		11mm minimum				
Direct Opening Force		20N minimum				
Thermal Current (I _{th})		Main circuit: 10A, Auxiliary circuit: 3A				
Contact Opening Distance		Main circuit: 1.7 mm max., Auxiliary circuit: 1.2 mm min.				
Operating Frequency		900 operations/hour max.				
Mechanical Life		1,000,000 operations				
Electrical Life		100,000 operations (rated load)				
Conditional Short-circuit Current		100A (IEC60947-5-1)				
Recommended Short Circuit Protection		250V, 10A fuse (Type D01 based on IEC60269-1, 60269-2)				

Overview

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Specifications, con't

Solenoid Unit	Operating Voltage	24V DC (100% duty cycle)
	Current	415mA (initial value)
	Coil Resistance	58Ω (at 20°C)
	Energizing Voltage	Rated voltage x 85% maximum (at 20°C)
	De-energizing Voltage	Rated voltage x 10% minimum (at 20°C)
	Continuous Applicable Voltage	Rated voltage x 110%
	Insulation Class	Class B
Indicator	Operating Voltage	24V DC
	Current	10 mA
	Light Source	LED lamp
	Lens Color	Red or Green
Weight (approx.)		660g

Contact Ratings

	Operating Voltage (Ue)			30V	125V	250V
	Main Circuit	AC	Resistive load (AC12)	10A	10A	6A
			Inductive load (AC15)	10A	5A	3A
		DC	Resistive load (DC12)	6A	-	-
Rated Operating Current (Ie)			Inductive load (DC13)	ЗA	0.9A	-
	Auxiliary Circuit	AC	Resistive load (AC12)	-	ЗA	ЗA
			Inductive load (AC15)	-	-	3A
		DC	Resistive load (DC12)	ЗA	-	-
			Inductive load (DC13)	-	0.9A	-

HS1C

Overview

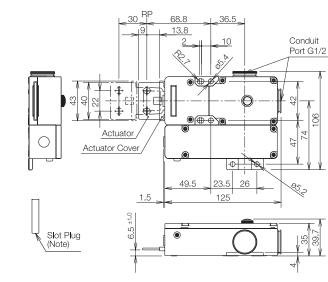
XW Series E-Stops

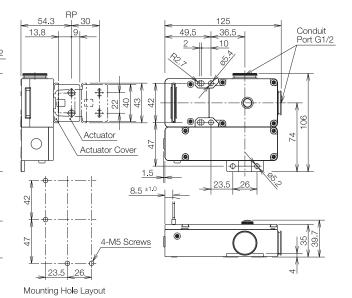
Interlock Switches

Enabling Switches

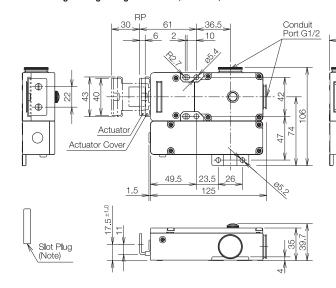
Safety Control Relays

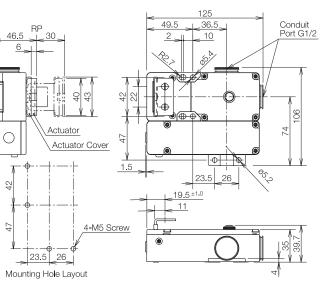
Dimensions (mm) HS1C-R44R-* - using the straight actuator (HS9Z-A1)





HS1C-R44R-* - using the Right-angle actuator (HS9Z-A2)







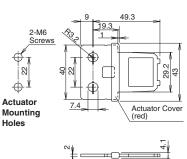
Solenoid Locking Safety Switches



Accessories

Straight Actuator (mainly for sliding doors) HS9Z-A1



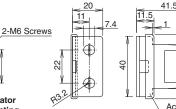


Right-angle Actuator (mainly for hinged doors) HS9Z-A2





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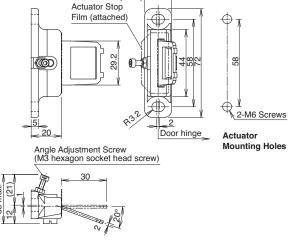
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Adjustable Actuator

- The actuator angle is adjustable (0° to 20°) for hinged doors.
- The minimum radius of the door opening can be as small as 100mm.

For HS1/HS2 Series (HS9Z-A3)





(Note)<u>⊢_18</u>

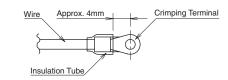
All dimensions in mm.

Applicable Crimping Terminals

- (Refer to the Crimping Terminal 1 or 2 shown in the drawing below.)
- HS1C
- Terminals No. 1 to 6: Use solid or stranded wires only (crimping terminals not applicable). Terminals No. 7 and 8: Crimping Terminal 1 Ground Terminal: Crimping Terminal 2
- HS1B
 - Ground Terminal: Crimping Terminal 2 Other Terminals: Crimping Terminal 1 HS2B, HS5B, and HS1E Crimping Terminal 1



Crimping Terminal 1 Use an insulation tube on the crimping terminal.





3.8 max

3.5 min



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

IDEC:

HS1C-R344R-G HS1C-R44R-G HS1C-P04Z-R HS1C-P44Z-R HS1C-R144R-G HS1C-R144R-R HS1C-K244R-G-T012 HS1C-R44R-R HS1C-P44Z-G HS1C-P04Z-G HS1C-R244R-R HS1C-K244R-G-T013 HS1C-ND-1 HS1C-R244R-G HS1C-L244R-G HS1C-R344R-R HS1C-K244R-G-T025 HS1C-K244R-G-T005