HS1B Full Size Interlock Switches

Key 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).















Part Numbers Body

Model	Contact Configuration	Pilot Light	Part Number
	1NC-1NO	Without	HS1B-11R
Main Circuit Auxiliary Circuit		Red LED	HS1B-114R-R
		Green LED	HS1B-114R-G
	2NC	Without	HS1B-02R
0 0		Red LED	HS1B-024R-R
Δ N Δ Δ Main Circuit Auxiliary Circuit		Green LED	HS1B-024R-G



Actuator Keys and Accessories (order separately)

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



Actuators are not included and must be ordered separately.

Specifications

IEC60947-5-1, EN60947-5-1, GS-ET-15, UL508, CSA C22.2 No. 14		
-20 to +70°C (no freezing)		
−40 to +80°C		
45 to 85% (no condensation)		
2,000m maximum		
300V (between LED and ground: 60V)		
4 kV (between LED and ground: 2.5 kV)		
Ω minimum $Ω$ minimum $Ω$ minimum $Ω$ minimum		
Class I (IEC61140)		
3 (IEC60947-5-1)		
IP67 (IEC60529)		

Shock Resistance		1,000 m/sec ² (approx. 100G)		
Actuator Operating Speed		0.05 to 1.0m/s		
Direct Opening Travel		11 mm minimum		
Direct Opening Force		20N minimum		
Thermal Current (I _{th})		10A		
Operating Frequency		900 operations/hour		
Mechanical Life		1,000,000 operations		
Electrical Life		100,000 operations (rated load)		
Conditional Short-circuit Current		100A (IEC60947-5-1)		
Recommende	ed Short Circuit Protection	250V, 10A fuse (Type D01 based on IEC60269-1, 60269-2)		
	Operating Voltage	24V DC		
Indicator	Current	10 mA		
	Light Source	LED lamp		
	Lens Color	Red or Green (12 mm dia. Lens)		
Weight		Approx. 280g		

Contact Ratings

_					
Rated Operating Current (I _e)	Operating Voltage (U _e)		30V	125V	250V
	AC	Resistive load (AC12) Inductive load (AC15)	10A 10A	10A 5A	6A 3A
	DC	Resistive load (DC12) Inductive load (DC13)	8A 4A	2.2A 1.1A	1.1A 0.6A

Application Examples and Circuit Diagrams

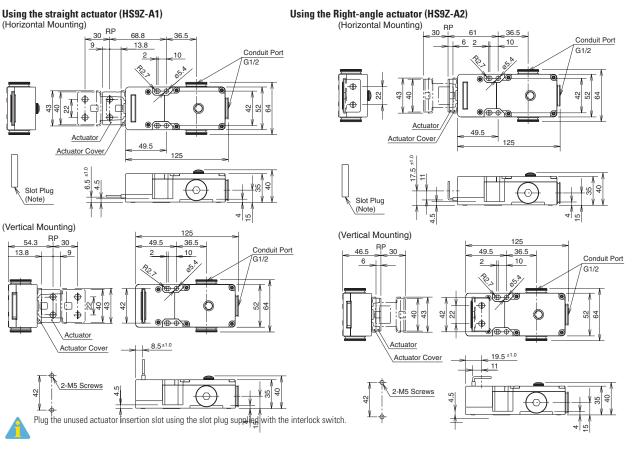
	Status 1	Status 2		Status 1	Status 2
Door/ Switch	Door Closed	Door opened D		Door Closed	Door opened
Status	Machine ready to operate	Machine cannot be started	Switch Status	Machine ready to operate	Machine cannot be started
Door				Auxiliary Circuit	Auxiliary Circuit
HS1B-11 (1NO-1NC) Circuit Diagram	Main Circuit Auxiliary Circuit	Main Circuit Auxiliary Circuit	HS1B-02 (2NC) Circuit Diagram	(H) (Main Circuit Au	Main Circuit Au
3	₩ ₩ ₩	₩ ₩ ₩			
Main Circuit	3-4: Closed	3-4: Open	Main Circuit	3-4: Closed	3-4: Open
Aux. Circuit	1-2: Open	1-2: Closed	Aux. Circuit	1-2: Closed	1-2: Open



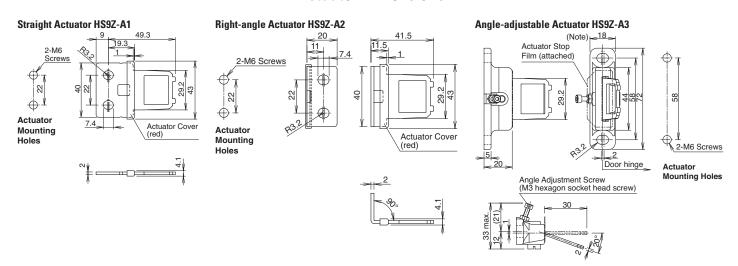
- 1. Main Circuit: used to enable the machine to start only when the main circuit is closed. Auxiliary Circuit: used to indicate whether the main circuit or door is open or closed.
- 2. Terminals + and are used for the LED indicator, and are isolated from door status. Wire the terminals only when needed.



Dimensions (mm)



Actuator Dimensions



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.

Actuator Angle Adjustment

- Using the screw (M3 hex socket head screw), the actuator angle can be adjusted (refer to the dimensional drawing). Adjustable angle: (0°) to 20°
- The larger the adjusted angle of the actuator, the smaller the applicable

radius of the door opening.

- After installing the actuator, open the door. Then adjust the actuator so that its edge can be inserted properly into the entry slot of the safety switch.
- Recommended tightening torque: 0.8 N-m (approx. 8.0 kgf-cm)
- After adjusting the actuator angle, apply loctite or the like to the adjustment screw to prevent it from loosening.

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