



Conforms to EN1088, EN292, EN60947-5-1, EN60204-1
UL and C-UL listed

■ Actual Size



G

safety interlock switches

HP2011

Slim Hinge-Operated Safety Interlock Switch

- Slim profile—allows switch to be mounted on 1 in. square tubing. Three M16 conduit entry points allow flexibility for wiring.
- NEMA 6 enclosure enables HP2011 with conduit entry to withstand water washdown cleaning.
- Rotatable head gives four possible actuator positions for versatile installation.
- Installation—the HP2011 offers both solid and hollow shaft versions for maximum versatility.
- Long life—the HP2011 is designed to last a minimum of four million actuations.
- Safety switch conformity—the HP2011, with its force-guided contacts and tamper-resistant mechanism, conforms to the European safety standards indicated here.

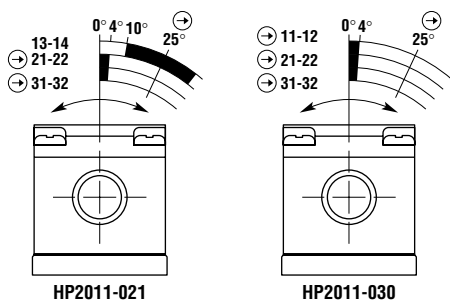
A Go to the Engineering Guide
For in-depth information on safety standards and use.

N For More Guarding Products
See Section N for safeguarding cutting and turning machines



■ Operation

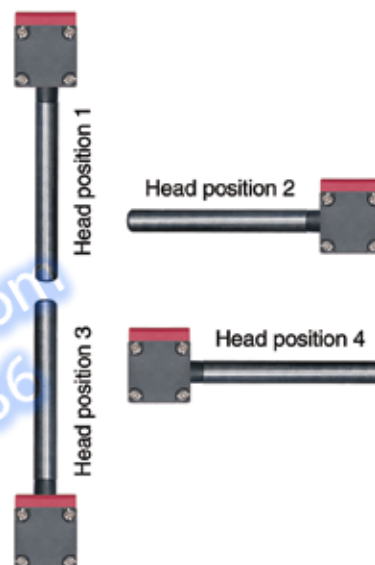
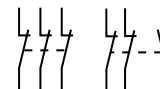
Switching Diagram



Note: Shaft must rotate 25 degrees in order to assure proper operation of the Force Guided Contacts in the event of contact weld or failure.



Contact Arrangement

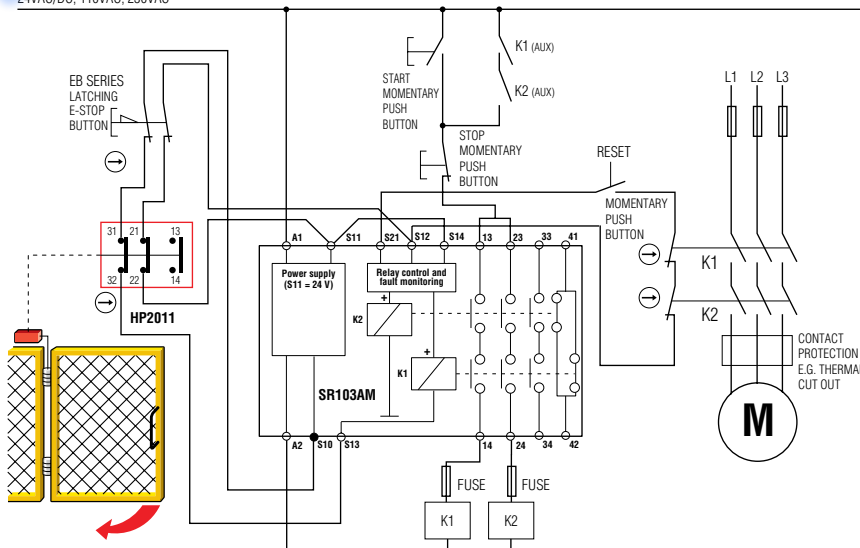


■ Applications

Typical applications are on small swinging guard doors, providing a tamper resistant switch free of misalignment problems.



24VAC/DC, 110VAC, 230VAC



Universal Mounting Brackets can be used with this product. See page G241 for details.

For a full explanation of the circuit operating principle and fault detection, see "Common Circuit Examples" in the Engineering Section of this catalog.

■ Specifications

Electrical	All Models
Contact Configurations:	1 N/O + 2 N/C, 3 N/C
Safety Contacts:	2 N/C positive break, 3 N/C positive break
Switching Ability	
AC:	230 V, 4 A
DC:	24 V, 4 A
Contact Material:	Silver alloy, gold flashed
Auxiliary Contacts:	1 N/O (HP2011-021 models only)
Minimum Switching Voltage:	12 V at 10 mA
Minimum Switching Current:	1 mA at 24 V
Mechanical	
Mounting:	Any position
Mounting Hardware:	2 x M4 screws (not supplied)
Break Contact Min Force:	0.1 Nm @ 20°C
Switching Principle:	Slow-action contact element
Max Actuation Frequency:	5000 cycles/hour
Case Material:	Glass-fibre reinforced thermoplastic
Actuator Shaft Material:	Stainless steel
Wiring Entry:	3 x M16
Weight:	89 g (3.2 oz.)
Color:	Black with red lid
Mechanical Life:	4 x 10 ⁶ minimum
Environmental	
Protection:	IP67 (NEMA 6)
Operating Temperature:	-20 to 80°C (-4 to 176°F)
Cleaning:	Water washdown
Compliance	
Standards:	EN1088, EN292, EN60947-5-1, EN60204-1
Approvals/Listings:	CE marked for all applicable directives, UL and C-UL (BG pending)

Specifications are subject to change without notice.

Note: The safety contacts of the Omron STI switches are described as normally closed (N/C)—i.e., with the guard closed, actuator in place, and the machine able to be started.

A **Go to the Engineering Guide**
For in-depth information on safety standards and use.

N **For More Guarding Products**
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