Cutler-Hammer

June 2000

Key Interlock Switches DIN Models

Contents

Overview	2-13
Model Selection, Switches	2-14
Model Selection,	
Actuating Keys	2-14
Specifications	2-14
Dimensions	2-15

The E48 DIN-Style Safety Key Interlock Limit Switch is designed to be used with movable guards or covers which must be closed for operational safety. The key portion of the switch is affixed to the movable door, cover or other such guard. The switch itself is mounted to a rigid portion of the machine. When the guard is opened, the key is removed from the switch, thereby *positively breaking* the normally closed contacts. This interrupts the control circuit, stopping machine operation.

Ratings and Approvals

- UL Listed
- TUV
- IEC 947-5-1
- EN60947-5-1
- NEMA A600 (UL/CSA Pilot Duty)
 Direct Opening N.C. contacts per EN60947-5-1 +
- Double insulation □

CE

For the most current information on this product, visit our web site at: www.sensingsolutions.com PRODUCTS

7

Cost-Effective Protection for Operators of Moving Machinery



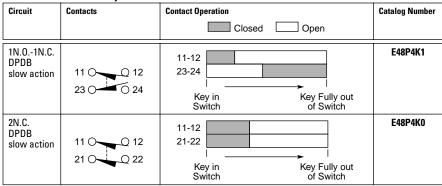
Product Features

- Head mechanism is designed to be difficult to defeat with common tools
- Three actuating key styles for mounting flexibility
- Choose from 1N.O.-1N.C. or 2N.C. DPDB contacts
- 1/2 14 NPT conduit entrance
- Four unique head mounting positions
- Dual entry points for actuating key top or side
- Tough plastic construction

For Customer Service in the U.S. call **1-800-356-1243**, in Canada call **1-800-268-3578**. For Application Assistance in the U.S. and Canada call **1-800-426-9184**.

E:T•N

Model Selection — Key Interlock Switches



NOTE: N.O. and N.C. contacts are defined with the key fully engaged in the switch.

Model Selection — Actuating Keys (must be ordered separately)

	Minimum Key Insertion Radius	Catalog Number
Adjustable (Self-Aligning)	7.8 inches (200 mm)	E48KL07
Vertical	7.8 inches (200 mm)	E48KL08
Horizontal	7.8 inches (200 mm)	E48KL09

Specifications

2

SAFETY PRODUCTS

Ambient Temperat	ure	Operation and Storage: -22° to 158°F (-30° to 70°C) minimum temperature is based upon absence of freezing water or moisture				
Enclosure Ratings		NEMA 4, IP65 conforming to IEC 529. Care must be taken that contaminants do not enter the actuating key area as this may prevent the switch from performing to specifications				
Ambient Humidity		95% maximum, non-condensing				
Weight		76 grams (0.17 lb)				
Housing Material		Synthetic resin				
Vibration Resistan	ce	10G in both vertical and horizontal axis (from 10 to 500 Hz) conforming to IEC 68-2-27				
Shock Resistance		30G in both vertical and horizontal axis conforming to IEC 68-2-27				
Mechanical Life		1 million operations minimum				
Electrical Life		150,000 operations minimum				
Short Circuit Prote	ction	Recommended: 10A fuse (type gl or gG) (IEC 269)				
Rated Insulation V	oltage	400V (EN 60947-5-1)				
Electric Shock Pro	tection	Insulation Class II (IEC 536)				
Operating Force (extraction)		14.7 N (3.30 lbf)				
Release Force (ins	ertion)	29.4 N (6.60 lbf)				
Total Travel		1.10 inch minimum (28 mm)				
Pretravel		0.24 ± 0.10 inches minimum (6 ± 3 mm)				
Direct Opening For	ce	58.8 N (13.2 lbf) minimum				
Operating Speed		0.04 to 20 inches/second (1 to 500 mm/second)				
Operating Frequen	су	30 operations/minute maximum				
N 14	Current	Maximum VA				
	Thermal C	ontinuous	Make	Break	Make	Break
120V AC	10A		60A	6.0A	7200 VA	720 VA
240V AC	10A		30A	3.0A	7200 VA	720 VA
480V AC	10A		15A	1.5A	7200 VA	720 VA
600V AC	10A		12A	1.2A	7200 VA	720 VA