

440G-S Spartan Guard Locking Switches

The 440G-S Spartan guard locking switches have the following features:

- Type 2 interlock with guard locking and low coding
- Power to Release
- Lid-mounted status indication
- Rotatable head: Four possible key entry slots
- A catch kit with actuator alignment helps protect the unit from actuator damage due to poor guard alignment
- Manual release points with security screws or special key allow the switch to be unlocked if an unforeseen and uncommon circumstance occurs, such as a power failure




Specifications

Attribute	Value
Safety Ratings	
Standards	ISO 14119, IEC 60947-5-1
Safety classification	Type 2 interlocking device with guard locking and low coding per ISO 14119
Functional safety	See publication SAFETY-SR001
Certifications	cULus Listed, TÜV Certified, and CE Marked for all applicable directives rok.auto/certifications
Outputs	
Safety contacts	2 N.C. or 3 N.C. direct opening action
Auxiliary contacts	1 N.O.
Thermal current (I_{th})	10 A
Insulation voltage	500V
Impulse withstand voltage	2500V
Utilization Category	AC 15
AC (Ue)	500V 250V 100V
(Ie)	1 A 2 A 5 A
DC	250V/0.5 A 24V/2 A
Switched current/volt/load, max	500V/500VA
Current, min	5V 5 mA DC
Safety contact gap	>2 mm (0.08 in.)
Solenoid Characteristics	
Holding force F_{max}	1000 N (225 lb)
Holding force F_{zh}	770 N (173 lb)
Power supply	24V AC/DC, 110V AC, 230V AC (solenoid)
Solenoid power	Typically 7 W 100% ED

Attribute	Value
Operating Characteristics	
Actuation speed, max	160 mm (6.3 in.) per second
Actuation frequency, max	1 cycle per second
Mechanical life	1,000,000 operations
Environmental	
Pollution degree ⁽¹⁾	3
Operating temperature	-20...+60 °C (-4...+140 °F)
Protection	IP67
Physical Characteristics	
Material	<ul style="list-style-type: none"> • Housing: UL Approved glass filled polyester • Actuator: Stainless steel
Conduit entry	1 x M20 or quick disconnect style
Fixing	2 x M5
Mounting	Any position
Electrical life	1,000,000 operations
Weight	260 g (0.57 lb)
Color	Red
Operating radius, min	175 mm (6.9 in.)
Status indicator	Solenoid monitor



(1) Conductive pollution occurs, or dry, non-conductive pollution occurs which becomes conductive due to condensation.

Product Selection

Actuator	Solenoid Voltage	Contacts		Cat. No.		
		Safety	Aux.	M20 Conduit	M20 Conduit/ 1/2in. Adapter	Quick Disconnect
Standard	24V AC/DC	2 N.C.	1 N.O.	440G-S36001	440G-S36044	440G-S36058
		3 N.C.	–	440G-S36007	440G-S36047	440G-S36059
	110V AC/DC	2 N.C.	1 N.O.	440G-S36003	440G-S36045	440G-S36060
		3 N.C.	–	440G-S36009	440G-S36048	440G-S36061
	230V AC/DC	2 N.C.	1 N.O.	440G-S36005	440G-S36046	440G-S36062
		3 N.C.	–	440G-S36011	–	440G-S36063
	Mating cable					889M-F12X9AE-x ⁽¹⁾

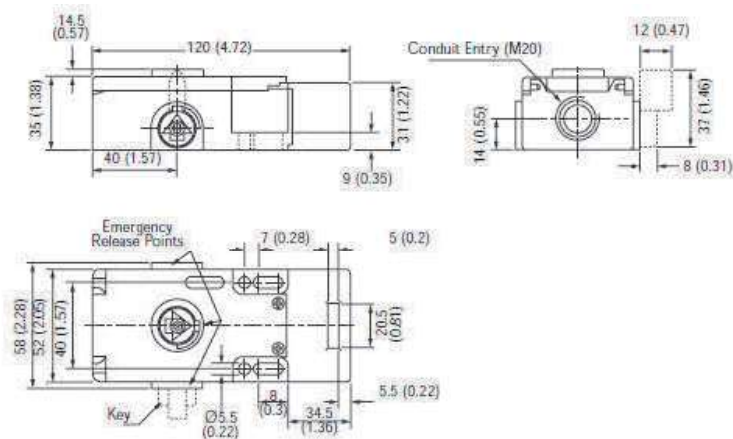
(1) Replace x with 2 (2 m [6.6 ft]), 5 (5 m [16.4 ft]), or 10 (10 m [32.8 ft]) for standard cable lengths.

Accessories

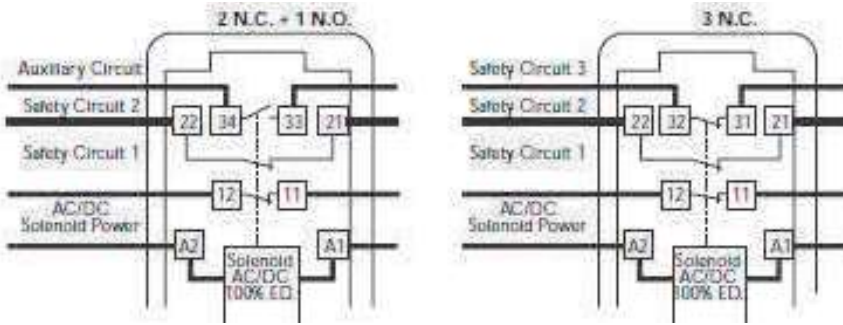
Description	Cat. No.
 Replacement actuator with catch retainer and guide	440G-A36050
 Manual release key	440G-A36026

Approximate Dimensions

Dimensions are shown in mm (in.). Dimensions are not intended to be used for installation purposes.



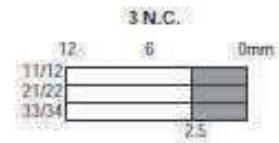
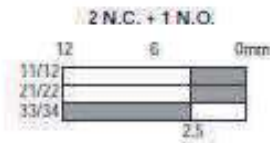
Typical Wiring Diagrams



Connector Pinout		2 N.C. + 1 N.O.		3 N.C.	
		Terminal	Contact	Terminal	Contact
	1	A1	Solenoid	A1	Solenoid
	3	A2	Power	A2	Power
	4	11	N.C.	11	N.C.
	6	12	N.C.	12	N.C.
	7	21	N.C.	21	N.C.
	8	22	N.C.	22	N.C.
	9	33	N.O.	31	N.C.
	19	34	N.O.	32	N.C.

Contact Action

Contact Open Contact Closed
 Actuator withdrawal distance from full insertion



Application Details

Four possible actuator entry positions

