

MT-GD2 Snap Acting Tongue Interlock Switches

Catalog Numbers 440K-M21ANDH, 440K-M21BNDH, 440K-M21BNDH-N5, 440K-M21MNDH-N5, 440K-M22ABDM, 440K-M22ABDT, 440K-M22AEDT, 440K-M22ANDL, 440K-M22ANDT, 440K-M22ASDM, 440K-M22ASDT, 440K-MT55002, 440K-MT55004, 440K-MT55005, 440K-MT55006, 440K-MT55022, 440K-MT55026, 440K-MT55029, 440K-MT55039, 440K-MT55041, 440K-MT55042, 440K-MT55045, 440K-MT55050, 440K-MT55051, 440K-MT55052, 440K-MT55062, 440K-MT55063, 440K-MT55065, 440K-MT55066, 440K-MT55070, 440K-MT55074, 440K-MT55075, 440K-MT55076, 440K-MT55077, 440K-MT55078, 440K-MT55079, 440K-MT55080, 440K-MT55081, 440K-MT55082, 440K-MT55083, 440K-MT55085, 440K-MT55086, 440K-MT55087, 440K-MT55088, 440K-MT55089, 440K-MT55091, 440K-MT55092, 440K-MT55095, 440K-MT55096, 440K-MT55097, 440K-MT55098, 440K-MT55099, 440K-MT55100, 440K-MT55101, 440K-MT55103, 440K-MT55104, 440K-MT55105

Summary of Changes

Converted multiple language pub to English only.

Installation

Installation of the MT-GD2 Snap Acting Tongue Interlock Switch must be in accordance with the following steps and stated specifications and implemented by suitably competent personnel. The unit is not to be used as a mechanical stop. Guard stops and guides must be mounted.

Adherence to the recommended maintenance instructions forms part of the warranty.



ATTENTION: The presence of spare actuators can compromise the integrity of the safety systems. Personal injury or death, property damage, or economic loss can result. Appropriate management controls, working procedures, and alternative protective measures should be introduced to control their use and availability.



WARNING: Do not defeat, tamper, remove, or bypass this unit. Severe injury to personnel could result.

Table 1 - Specifications

Attribute	Value
Safety contacts	2 N.C. direct opening action
Thermal current	10 A
Current	1 mA @ 24V DC for 1 million operations, min 2 A with a FF type fuse for 500,000 operations with a resistive load per IEC 60947-4-1 2 A with a FF type fuse for 500,000 operations with an inductive load per IEC 60947-5-1
Rated insulation voltage	Ui 2500V
Rated impulse withstand	Uimp 2500V
Pollution degree	3
Fuse rating	2 A FF type super quick blow to EN 60127, max
Operating frequency	600 cycles/hr
Auxiliary contacts	2 N.O.
Ingress protection rating	IP67

Attribute	Value
Operating temperature	-20...+80 °C (-4...+176 °F)
Mechanical life	1,000,000 operations
Torque settings, max	5.0 N·m (44.25 lb-in) mounting bolts 1.6 N·m (14.16 lb-in) lid screws 1.0 N·m (8.85 lb-in) terminal screws 1.6 N·m (14.16 lb-in) head bolts



ATTENTION: The safety contacts of these products are described as normally closed (N.C.), for example, with the guard closed, actuator in place (where relevant), and the machine able to be started.

Maintenance

Every week, check the alignment of the actuator to the switch and the correct operation of the switching circuit. Also check for signs of abuse or interference. Inspect the switch casing and actuator for damage. Replace if needed.

At least every six months, isolate all power. Remove the lid and end cover. Inspect all terminals for tightness. Clean out any accumulation of fine dirt. Check for any sign of wear of damage, for instance, actuator wear, cam assembly wear, contact oxidation and replace if needed. Replace cover and tighten screws to specified settings. Reinstate the power and check for correct operation. Reapply tamper evident varnish or similar compound for mountings.

Repair

If there is any malfunction or damage, make no attempts at repair. Replace before machine operation is allowed. **DO NOT DISMANTLE THE UNIT.**

Information in Regard to UL508

The temperature rating of field wiring can't be less than ambient when used in elevated ambient zones.

Use copper conductors only. Use polymeric conduit only. End of line device.

IMPORTANT After installation and commissioning, the actuator, switch, and switch lid mounting screws should be coated with tamper evident varnish or similar compound.



The products shown in this document, conform with the Essential Health and Safety Requirements (EHSRs) of the European Machinery Directive. These products are third-party certified to EN 60947-5-1 and EN ISO 14119.

Declaration of Conformity and certification: rok.auto/certifications.

ISO 14119 defines types of interlocking devices and coding.



ATTENTION: Discard the plastic transit plugs (shipped with select conduit models only) at installation and replace with UL Listed outlet box plugs or the equivalent.

Figure 1 - Approximate Dimensions [mm (in.)]

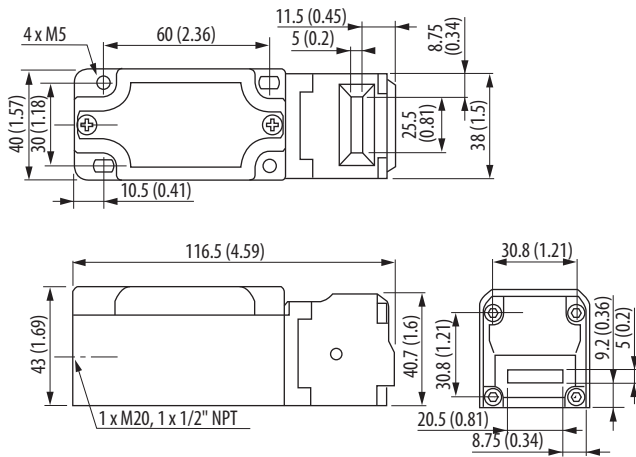


Figure 2 - Approximate Key Dimensions [mm (in.)]

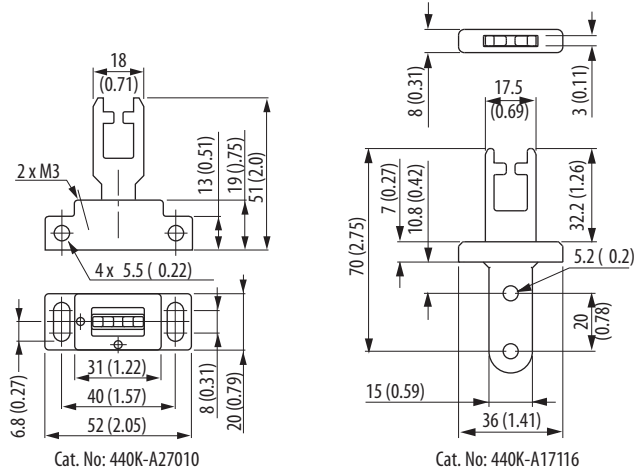
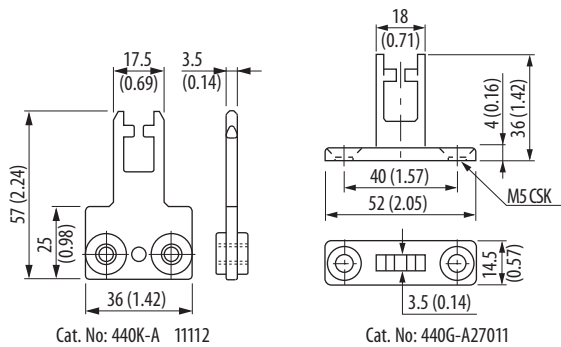


Figure 3 - Assembly

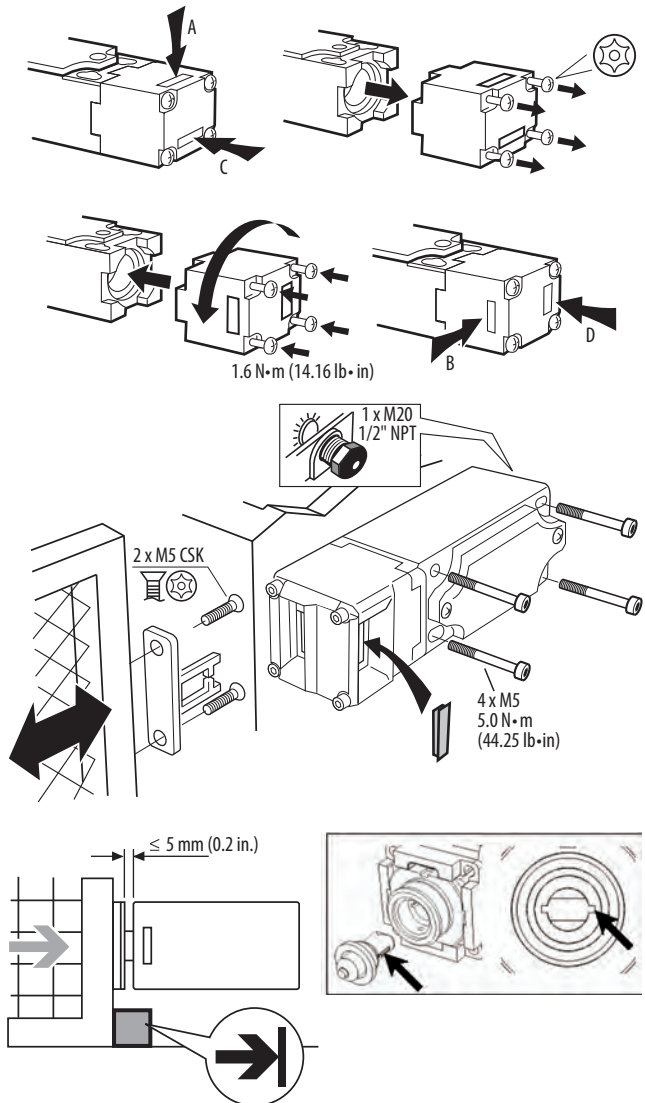


Figure 4 - Wiring

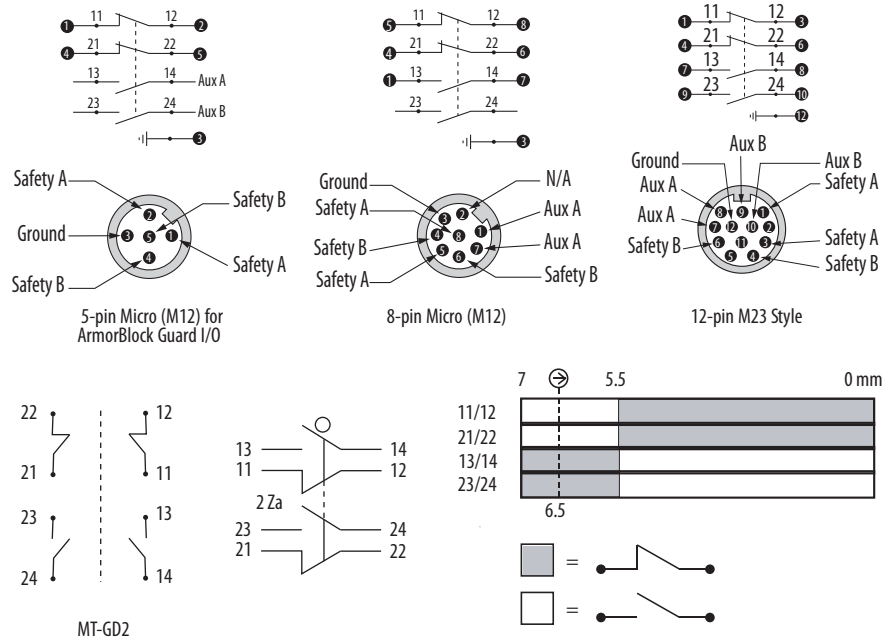


Table 2 - Angle of Insertion [mm (in.)]

440G-A27011	175 (6.89)	175 (6.89)	175 (6.89)	175 (6.89)
440K-A11112	175 (6.89)	175 (6.89)	175 (6.89)	175 (6.89)
440G-A27143	175 (6.89)	60 (2.36)	60 (2.36)	60 (2.36)
440G-A27163	—	—	—	—
440K-A17116	175 (6.89)	175 (6.89)	175 (6.89)	175 (6.89)

The terminals on this device are for either SELV Voltages or Hazardous Voltages, exclusively. Never connect SELV and Hazardous circuits to the unit at the same time.

Check to be sure that the machine is isolated and stopped whenever the interlocked guard door is open.

IMPORTANT After installation and commissioning, the actuator, switch, and switch lid mounting screws should be coated with tamper evident varnish or a similar compound.

Rockwell Automation Support

Use the following resources to access support information.

Technical Support Center	Knowledgebase Articles, How-to Videos, FAQs, Chat, User Forums, and Product Notification Updates.	https://rockwellautomation.custhelp.com/
Local Technical Support Phone Numbers	Locate the phone number for your country.	http://www.rockwellautomation.com/global/support/get-support-now.page
Direct Dial Codes	Find the Direct Dial Code for your product. Use the code to route your call directly to a technical support engineer.	http://www.rockwellautomation.com/global/support/direct-dial.page
Literature Library	Installation Instructions, Manuals, Brochures, and Technical Data.	http://www.rockwellautomation.com/global/literature-library/overview.page
Product Compatibility and Download Center (PCDC)	Get help determining how products interact, check features and capabilities, and find associated firmware.	http://www.rockwellautomation.com/global/support/pcdc.page

Documentation Feedback

Your comments will help us serve your documentation needs better. If you have any suggestions on how to improve this document, complete the How Are We Doing? form at http://literature.rockwellautomation.com/idc/groups/literature/documents/du/ra-du002_-en-e.pdf.

Waste Electrical and Electronic Equipment (WEEE)



At the end of life, this equipment should be collected separately from any unsorted municipal waste.

Rockwell Automation maintains current product environmental information on its website at <http://www.rockwellautomation.com/rockwellautomation/about-us/sustainability-ethics/product-environmental-compliance.page>.

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