



Conforms to EN1088, EN292, EN60947-5-1, EN60204-1, EN50041
UL and C-UL listed



G

safety interlock switches

T4011

Heavy-duty Metal Body Safety Interlock Switch

- Rugged enclosure — the all metal housing and stainless steel actuator of the T4011 makes it suitable for harsh environments
- Latching version — locks actuator in the switch until manually released. Prevents nuisance trips due to vibration
- Four sets of contacts — 2 sets of contacts for dual channel safety monitoring and 2 additional sets of contacts for status monitoring
- DIN mounting pattern for globally recognized mounting configuration
- Rotatable head — provides 8 possible actuator entry positions for versatile installation
- NEMA 6 enclosure — enables the T4011 to withstand water washdown cleaning
- Long life — the T4011 is designed for a minimum of one million actuations

A

Go to the Engineering Guide

For in-depth information on safety standards and use.

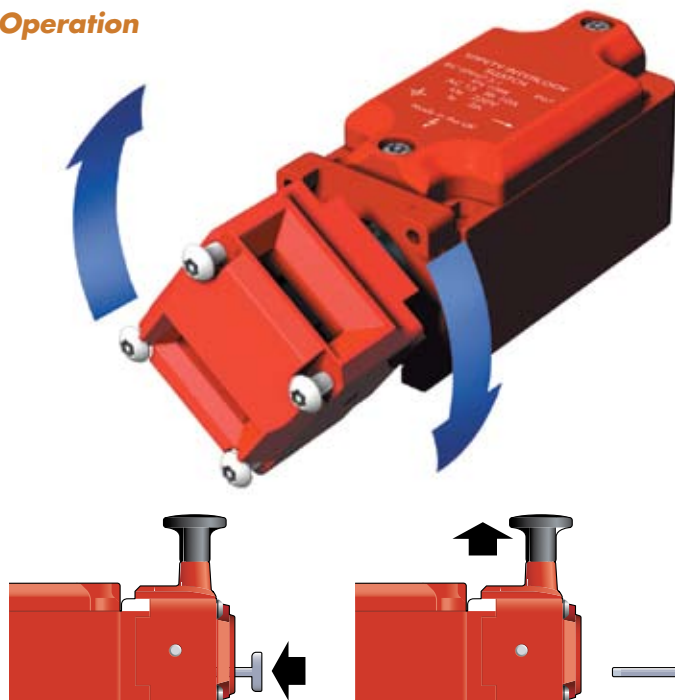
N

For More Guarding Products

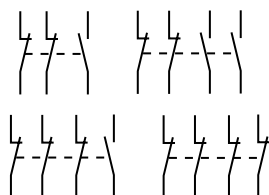
See Section N for safeguarding cutting and turning machines



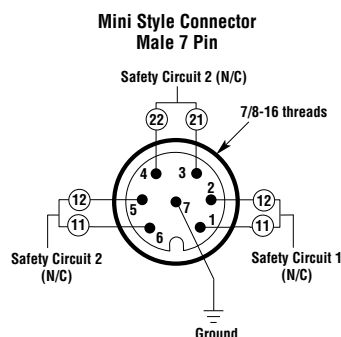
■ Operation



Contact Arrangements



■ Optional Connector



Minimum Operating Radius Front-Entry (Standard & Flat Actuator)

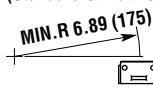


Flexible Actuator:
MIN. R 2.36 (60)
Semi flexible actuator:
MIN. R 6.89 (175)

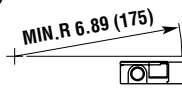


Flexible Actuator:
MIN. R 2.36 (60)
Semi flexible actuator:
MIN. R 2.36 (60)

Minimum Operating Radius End-Entry (Standard & Flat Actuator)



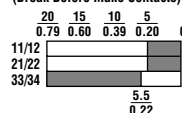
Flexible Actuator:
MIN. R 2.36 (60)
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Flexible Actuator:
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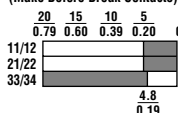
3 POLE CONTACT BLOCK

Actuator withdrawal distance
from full insertion: type BBM
(Break Before Make Contacts)



□ Contact Open ■ Contact Closed

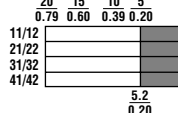
Actuator withdrawal distance
from full insertion: type MBB
(Make Before Break Contacts)



□ Contact Open ■ Contact Closed

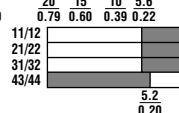
4 POLE CONTACT BLOCK

4N/C Version



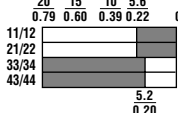
□ Contact Open ■ Contact Closed

3N/C + 1N/O version MBB



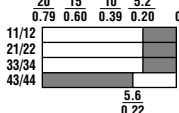
□ Contact Open ■ Contact Closed

2N/C + 2N/O version MBB



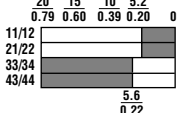
□ Contact Open ■ Contact Closed

3N/C + 1N/O version BBM



□ Contact Open ■ Contact Closed

2N/C + 2N/O version BBM



□ Contact Open ■ Contact Closed

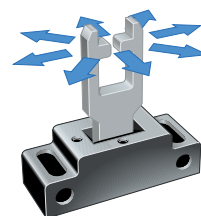
Flat Actuator

Allows mounting
to flat surfaces.
Flexible rubber
mounting bushings
also allow for some
actuator flexibility.



Flexible 1 Actuator

15° flexibility
in any direction.
The actuator
has 2 set screws
for altering and
locking adjust-
able angle.



Actuator with Chain

Allows
actuator to be
attached to
guard gates
with large
misalignments.



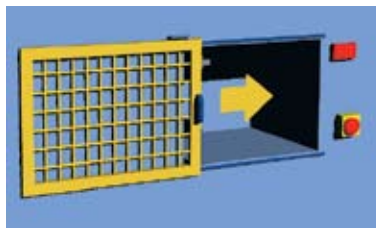
Optional SLD Series

Optional switch locking devices
are available. See accessories
section for details.

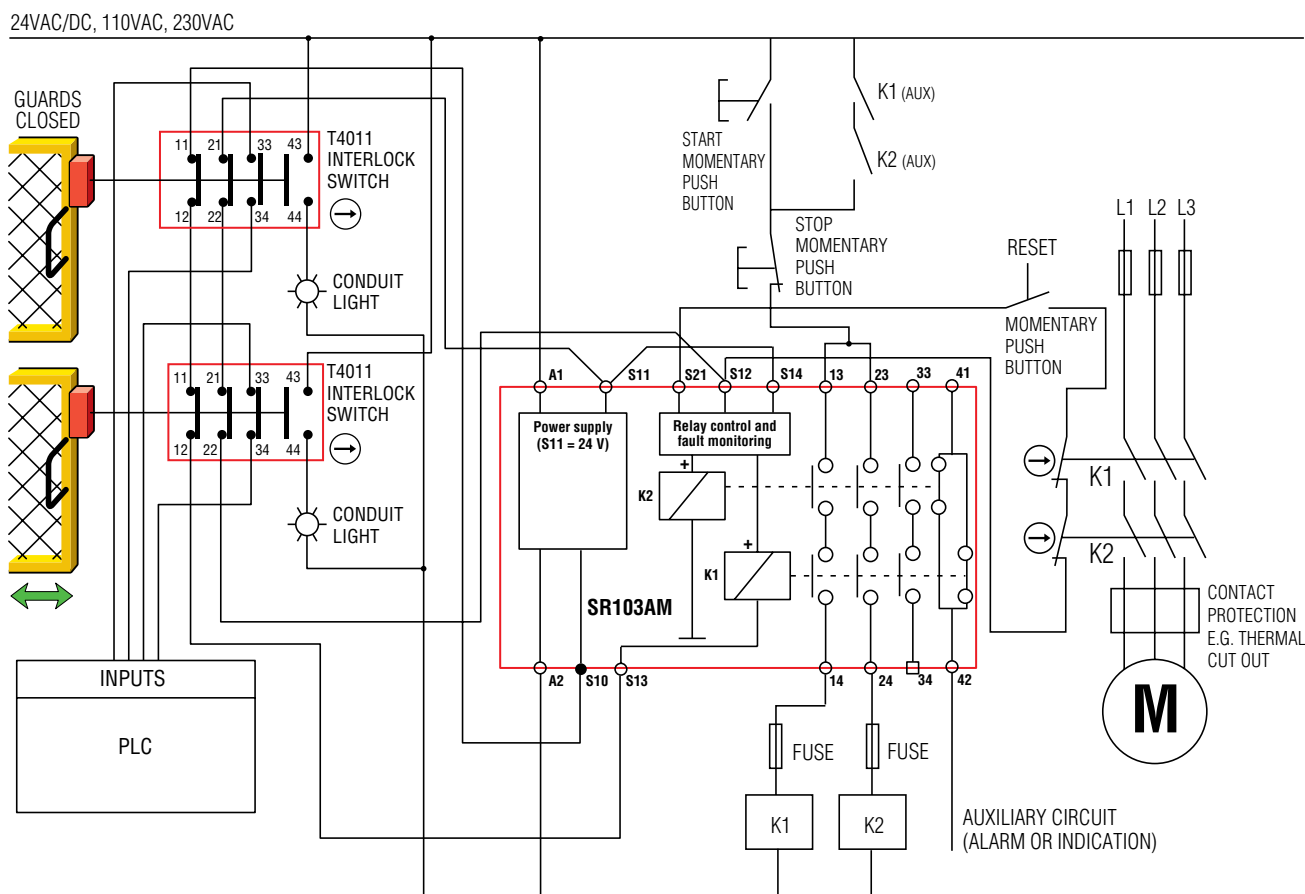


■ Applications

Typical applications are on sliding guard doors or swinging guard doors with a 2.5 in. minimum swing radius when using the flexible 1 actuator.



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safety interlock switches



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

■ Specifications

Electrical	All Models
Contact Configurations:	2 N/C + 1 N/O, 2 N/C + 2 N/O, 3 N/C + 1 N/O, 4 N/C
Safety Contacts:	2 N/C, 3 N/C, 4 N/C positive break
Switching Ability	
AC:	500 V–1 A, 250 V–2 A, 100 V–5 A (60 V–3 A with connector option)
DC:	250 V–0.5 A, 24 V–2 A
Safety Contact Gap:	2 x 2 mm or 3 x 2 mm or 4 x 2 mm
Auxiliary Contacts:	1 N/O or 1 N/C or 2 N/O
Max Switching Current/Volt/Amp:	500 V/500 VA
Minimum Current:	5 V 5 mA DC
Electrical Life:	1 x 10 ⁶ minimum
Mechanical	
Mounting:	Any position
Mounting Hardware:	4 x M5 screws
Actuator Travel for Positive Opening:	6 mm (0.24 in.)
Min Operating Radius:	60 mm (2.5 in.) with Flex 1 actuator; 175 mm (6.89 in.) with standard actuator
Break Contact Min Force:	12 N (2.7 lb.)
Max Actuation Speed:	1 m/s
Max Actuation Frequency:	2 cycles/sec
Case Material:	Painted zinc
Actuator Material:	Stainless steel
Wiring Entry:	1/2 in. NPT or 1 x M20 or 1 x Pg 13.5, or Micro Style Connector, 8 Pole Male
Weight:	530 g (18.6 oz.)
Color:	Red
Mechanical Life:	1 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, EN50041
Approvals/Listings:	CE marked for all applicable directives, UL and C-UL

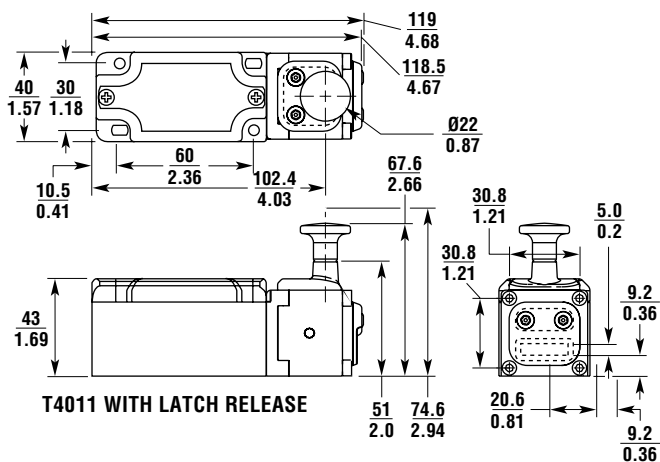
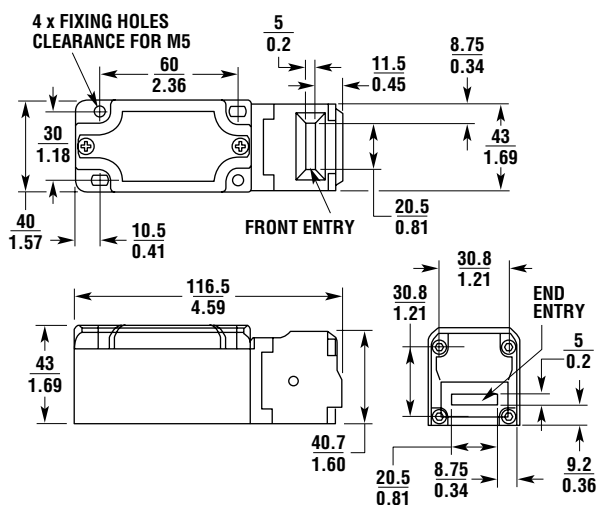
Specifications are subject to change without notice.

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.

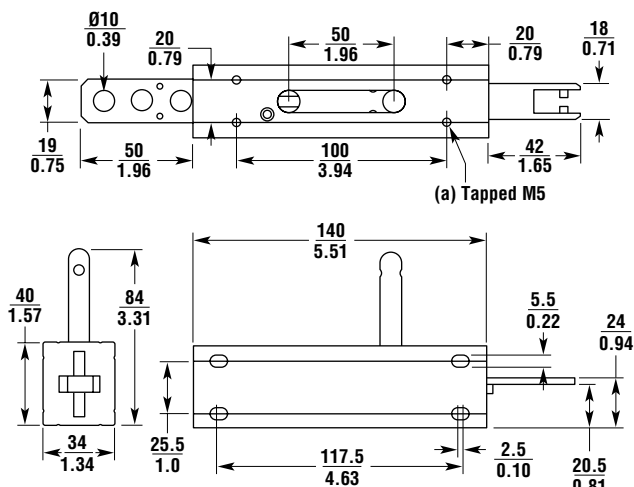
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safety interlock switches

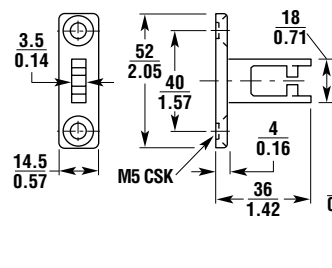
■ Dimensions — mm/in.



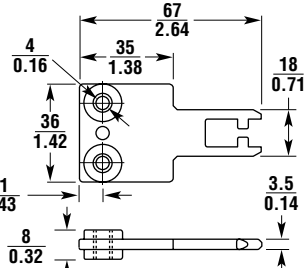
LOCKOFF SLIDING ACTUATOR



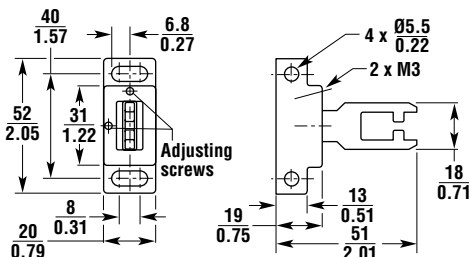
STANDARD ACTUATOR



FLAT ACTUATOR



FLEXIBLE 1 ACTUATOR



■ Ordering

T4011

STANDARD ACTUATOR	Contacts	Wiring Entry*	Part No.
T4011-021SN	2 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-0010
T4011-022SN	2 N/C + 2 N/O BBM	1 x 1/2 in. NPT	44533-0020
T4011-031SN	3 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-0030
T4011-040SN	4 N/C BBM	1 x 1/2 in. NPT	44533-0040
T4011-022MSN	2 N/C + 2 N/O MBB	1 x 1/2 in. NPT	44533-0050
T4011-031MSN	3 N/C + 1 N/O MBB	1 x 1/2 in. NPT	44533-0060
T4011-021SCC	2 N/C + 1 N/O BBM	Cable Connector	44533-0070
FLEXIBLE 1 ACTUATOR			
T4011-021F1N	2 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-0110
T4011-022F1N	2 N/C + 2 N/O BBM	1 x 1/2 in. NPT	44533-0120

■ Ordering (continued)

FLEXIBLE 1 ACTUATOR (continued)	Contacts	Wiring Entry*	Part No.
T4011-031F1N	3 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-0130
T4011-040F1N	4 N/C BBM	1 x 1/2 in. NPT	44533-0140
T4011-022MF1N	2 N/C + 2 N/O MBB	1 x 1/2 in. NPT	44533-0150
T4011-031MF1N	3 N/C + 1 N/O MBB	1 x 1/2 in. NPT	44533-0160
T4011-021F1CC	2 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-0170
FLAT ACTUATOR			
T4011-021TN	2 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-0310
T4011-022TN	2 N/C + 2 N/O BBM	1 x 1/2 in. NPT	44533-0320
T4011-031TN	3 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-0330
T4011-040TN	4 N/C	1 x 1/2 in. NPT	44533-0340
T4011-022MTN	2 N/C + 2 N/O MBB	1 x 1/2 in. NPT	44533-0350
T4011-031MTN	3 N/C + 1 N/O MBB	1 x 1/2 in. NPT	44533-0360
T4011-021TNCC	2 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-0370
T4011 WITH LATCH			
STANDARD ACTUATOR			
T4011-L021SN	2 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-1010
T4011-L022SN	2 N/C + 2 N/O BBM	1 x 1/2 in. NPT	44533-1020
T4011-L031SN	3 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-1030
T4011-L040SN	4 N/C BBM	1 x 1/2 in. NPT	44533-1040
T4011-L022MSN	2 N/C + 2 N/O MBB	1 x 1/2 in. NPT	44533-1050
T4011-L031MSN	3 N/C + 1 N/O MBB	1 x 1/2 in. NPT	44533-1060
T4011-L021SCC	2 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-1070
FLEXIBLE 1 ACTUATOR			
T4011-L021F1N	2 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-1110
T4011-L022F1N	2 N/C + 2 N/O BBM	1 x 1/2 in. NPT	44533-1120
T4011-L031F1N	3 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-1130
T4011-L040F1N	4 N/C BBM	1 x 1/2 in. NPT	44533-1140
T4011-L022MF1N	2 N/C + 2 N/O MBB	1 x 1/2 in. NPT	44533-1150
T4011-L031MF1N	3 N/C + 1 N/O MBB	1 x 1/2 in. NPT	44533-1160
T4011-L021F1CC	2 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-1170
FLAT ACTUATOR			
T4011-L021TN	2 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-1310
T4011-L022TN	2 N/C + 2 N/O BBM	1 x 1/2 in. NPT	44533-1320
T4011-L031TN	3 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-1330
T4011-L040TN	4 N/C BBM	1 x 1/2 in. NPT	44533-1340
T4011-L022MTN	2 N/C + 2 N/O MBB	1 x 1/2 in. NPT	44533-1350
T4011-L031MTN	3 N/C + 1 N/O MBB	1 x 1/2 in. NPT	44533-1360
T4011-L021TCC	2 N/C + 1 N/O BBM	1 x 1/2 in. NPT	44533-1370
Replacement Standard Actuator			44519-0700
Replacement Flex 1 Actuator			44519-0710
Replacement Flat Actuator			44519-0720
Flat Actuator with Chain (12 in. of chain attached)			44533-0700
Lockoff Actuator for T4011			44512-0700
Accessories and Cables with Mating Connectors (see page G238)			

BBM = Break Before Make Contacts, MBB = Make Before Break Contacts