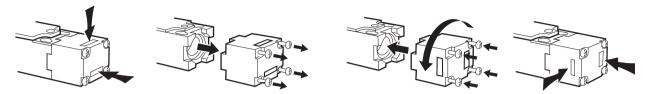
#### Versatility

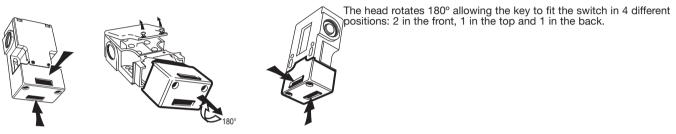
Many safety switches allow the head of the switch to rotate, offering different options on how the switch can be operated and mounted on the guard. This offers flexibility to best fit typical applications.

#### Elf, Cadet3, MT-GD2, 440G-MT



The head can be rotated 4 times at 90° allowing the key to fit the switch in 8 different positions.

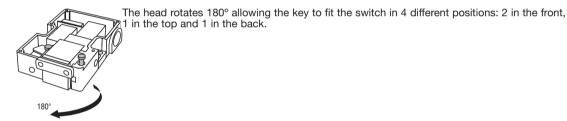
#### Trojan T15, Trojan 5, Trojan 6 (Not GD2 Models)



TLS-GD2

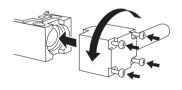
**Switches** 

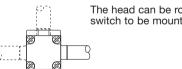




Sprite, Ensign







The head can be rotated 4 times at 90° allowing the switch to be mounted in 4 different positions.

## Accessories for Tongue and Guard Locking Switches

#### The correct actuator for your application

A large variety of tongue actuators are available:

Standard: 90°, Flat, Standard Flexible: Semi and Fully

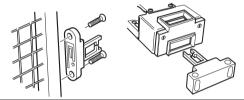
Specialty: Extended Flat and GD2 models



Standard type actuators accommodate most of the applications. Their design allows for the actuator and the switch to be mounted in different position and the guard to work properly. The flat actuator is mounted on small rubber blocks allowing for some play when the guard closes. The 90° is typically used on sliding doors.



Flexible type actuators are used when doors are sagging or are not sturdy enough to guarantee insertion of the actuator always in-line with the opening of the switch. The flexible actuator allows for some motion of the actuator to "self" align with the opening of the switch. Fully flexible actuators allow the actuator to move within a 15° angle in any direction. Semi-flexible actuators can be used for tight angles where the actuator enters the switch at an angle. This angle is adjustable on the actuator. The semi-flexible actuator moves only in a single plan direction.



GD2 actuators are dedicated actuators for GD2 models and are not suitable for use with standard models.



Extended flat type actuator is used mostly when the actuator is mounted on a chain and inserted in the switch. The guard is latched and the key is just inserted in the switch attached to a chain. When the door opens, the chain pulls the actuator activating the safety contacts.



# Overview

## **Product Selection**

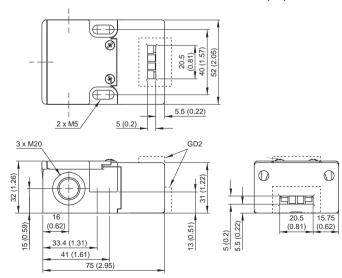
Descrip	tion	Elf	Cadet 3	T15	T15 GD2	T5-T6	T5 GD2- T6 GD2	MT-GD2	TLS GD2	Atlas 5	440G- MT	Cat. No.
Standard actuator						✓						440K-A11095
Standard actuator				✓								440K-A11238
Standard actuator										<b>√</b>		440G-A07136
GD2 standard actuator					<b>~</b>		<b>~</b>	<b>~</b>	<b>√</b>		<b>~</b>	440G-A27011
Flat actuator, not to be used with metal alignment guide		<b>√</b>	<b>~</b>									440K-A21014
GD2 flat actuator	-				<b>√</b>		<b>√</b>	<b>√</b>	<b>√</b>		<b>✓</b>	440K-A11112
90° actuator, not to be used with metal alignment guide		✓	<b>✓</b>									440K-A21006
Fully flex actuator					<b>~</b>		<b>~</b>	<b>✓</b>	<b>√</b>		<b>√</b>	440G-A27143
Fully flex actuator										<b>√</b>		440G-A07269
Extended flat actuator					<b>~</b>		<b>~</b>	<b>~</b>	<b>√</b>		<b>√</b>	440K-A17116
Metal alignment guide with semi- flexible actuator		✓	<b>✓</b>									440K-A21030
Alignment guide with semi-flexible actuator	T			<b>√</b>	<b>~</b>	<b>√</b>	<b>✓</b>	<b>~</b>				440K-A11144
Alignment guide with fully-flexible actuator				<b>√</b>		<b>√</b>						440K-A27010
Catch and Retainer Kit						<b>√</b>						440K-A11094
Replacement Alignment Guide						<b>√</b>						440K-A11115



	Description	To Be Used With:	Dimensions	Cat. No.
	Standard actuator	Trojan T15 Standard Models Only	3-51	440K-A11238
	GD2 standard actuator	Trojan GD2 Models Only	3-50	440G-A27011
	GD2 flat actuator	Trojan GD2 Models Only	3-51	440K-A11112
	Alignment guide with semi-flexible actuator	Discard Alignment Guide for GD2 Models	3-31	440K-A11144
	Alignment guide with fully-flexible actuator	Discard Alignment Guide for GD2 Models	3-52	440K-A27010
Jan 10	Sliding bolt actuator	Trojan GD2 Models Only	3-55	440G-A27163
	Catch and Retainer Kit	Trojan T15 Standard Models Only	3-50	440K-A11094
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Replacement Cover	All Models	_	440A-A11499
A STATE OF THE PARTY OF THE PAR	Dust Cover	All Models	_	440K-A17180

## **Approximate Dimensions**

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



Note: 2D, 3D and electrical drawings are available on www.ab.com.



	Description	To Be Used With:	Dimensions	Cat. No.
	Standard actuator	Trojan T5 and T6 Standard Models Only	3-51	440K-A11095
	GD2 standard actuator	GD2 Models Only	3-50	440G-A27011
	GD2 flat actuator	GD2 Models Only	3-51	440K-A11112
H III	Alignment guide with semi-flexible actuator	Discard Alignment Guide for GD2 Models	3-51	440K-A11144
	Alignment guide with fully-flexible actuator	Discard Alignment Guide for GD2 Models	3-52	440K-A27010
Joseph Control of the	Sliding bolt actuator	GD2 Models Only	3-55	440G-A27163
	Catch and Retainer Kit	Trojan T5 and T6 Standard Models Only	3-50	440K-A11094
Trojon 5		Trojan T5 Standard Models Only		440A-A11495
5 11 1 2	Replacement Cover	Trojan T5 GD2	_	440A-A11496
	Hopiasomoni Covoi	Trojan T6 Standard Models Only		440A-A11497
3 7 0		Trojan T6 GD2		440A-A11498
	Dust Cover	All Models	_	440K-A17180

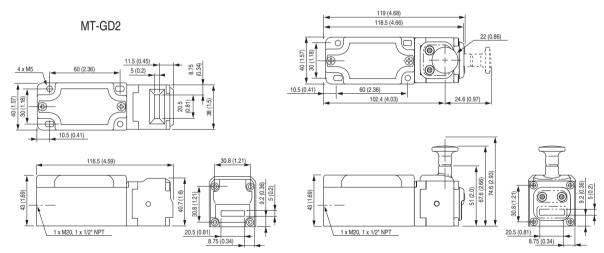


Description	n	Dimensions	Cat. No.
	GD2 standard actuator	3-50	440G-A27011
	GD2 flat actuator	3-51	440K-A11112
	Fully flex actuator	3-50	440G-A27143
The state of the s	Sliding bolt actuator	3-55	440G-A27163
	Extended flat actuator	3-51	440K-A17116
	Dust Cover	_	440K-A17180

## **Approximate Dimensions**

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

## MT-GD2 Latch Release



Note: 2D, 3D and electrical drawings are available on www.ab.com.



# **Guard Locking Switches**

#### **Connection Systems**

Description	8-Pin Micro	12-Pin M23
Cordset	889D-F8AB-∗	889M-F12AH-∗
Patchcord	889D-F8ABDM-*	889M-F12AHMU-‡

- Replace symbol with 2 (2 m), 5 (5 m), or 10 (10 m) for standard cable lengths.
  Replace symbol with 1 (1 m), 2 (2 m), 3 (3 m), 5 (5 m), or 10 (10 m) for standard cable lengths.
  Replace symbol with 0M3, (0.3 m), 0M6 (0.6 m), 1 (1 m), 2 (2 m) or 3 (3 m) for standard lengths.

Note: For additional information, see page 7-1.

#### **Accessories**

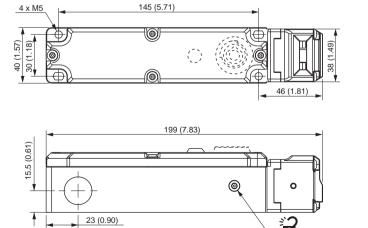
Desc	ription	Dimensions	Cat. No.
	GD2 standard actuator		440G-A27011
	GD2 flat actuator		440K-A11112
	Fully flex actuator	3-50	440G-A27143
De la	Sliding bolt actuator		440G-A27163
	Extended flat actuator		440K-A17116
	Replacement Cover, No LED, No Override Key		440G-MT47120
	Replacement Cover, LED, Override Key	_	440G-MT47123
6	Emergency Override Key (See Warning below.)	_	440G-A36026
	Dust Cover	_	440K-A17180

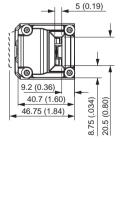


WARNING: Do not attach the Emergency Override Key to the 440G-MT switch.

#### **Approximate Dimensions**

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





Note: 2D, 3D and electrical drawings are available on www.ab.com.



	Description	Dimensions	Cat. No.
	GD2 standard actuator	3-50	440G-A27011
	GD2 flat actuator	3-51	440K-A11112
	Extended flat actuator	3-51	440K-A17116
	Fully flex actuator	3-50	440G-A27143
The same	Sliding bolt actuator not to be used with the Escape Release	3-55	440G-A27163
	Cover for TLS-1 with external override key for series D and earlier Cover for TLS-3 with external override key for series D and earlier Cover for TLS-1 with override key attached for series D and earlier Cover for TLS-3 with override key attached for series D and earlier Cover for TLS-1 with external override key for series E and later Cover for TLS-3 with external override key for series E and later Cover for TLS-1 with override key attached for series E and later Cover for TLS-3 with override key attached for series E and later		440G-A27140 440G-A27142 440G-A27207 440G-A27208 440G-A27371 440G-A27372 440G-A27373 440G-A27373
-	Emergency Override Key (See Warning below.)	_	440G-A36026
	Flexible Release—1 m (3.28 ft) Cable  Flexible Release—3 m (9.84 ft) Cable	3-54	440G-A27356 440G-A27357
	Dust Cover	_	440K-A17183
3	Sliding Bolt	3-55	440K-AMDS
	Mounting Plate	3-55	440K-AMDSSMPB



**WARNING:** Do not attach the Emergency Override Key to the TLS-GD2 switch.



# Accessories for Interlock and Guard Locking Switches

#### Actuators\*

Item	Description	Approximate Dimensions [mm (in.)]	Cat. No.
	Standard actuator	3.5 (0.14)  (0.39)  30 (1.18)  2 x M5  3 5 (0.2)  5 (0.2)  18 (0.71)	440G-A07136
	Fully flex actuator	90 (3.54) 90 (3.54) 90 (3.54) 90 (3.54) 90 (3.54) 90 (3.54) 90 (3.54)	440G-A07269
	GD2 standard actuator	18 (0.71)	440G-A27011
	Fully flex actuator	6.8 (0.27) Adjusting screws  2 x M3  2 x M3  4 x Ø5.5  (0.22)  8 (0.31)  4 x Ø5.5	440G-A27143
	Catch and Retainer Kit	52 (2.0.5) 40 (1.57) 52 (2.0.5) 40 (1.57) 52 (2.0.5) 40 (1.57) 52 (2.0.5) 40 (1.57) 53 (2.0.5) 40 (1.57) 54 (2.0.5) 57 (2.0.5)	440K-A11094

 $<sup>\</sup>boldsymbol{*}$  See page 3-8 for Switch Compatibility table.

#### **Product Selection**

Туре	Actuator Type	Trapped Key Condition	Cat. No.
	Standard		440T-MSSLE10∗
Single key	Flexible	Key trapped to release actuator	440T-MSSLE11*
	Flat	Key trapped to release actuator  Primary key trapped, secondary key free trelease actuator  Both keys trapped to release actuator	440T-MSSLE12*
	Standard		440T-MDSLE10∗⊗
	Flexible	Flexible Primary key trapped, secondary key free to release actuator 440T-440T-	440T-MDSLE11*⊗
Dual key	Flat release actuator 44  Flat	440T-MDSLE12*⊗	
Dual key	Standard	Standard Flexible Flat Standard Flexible Flat  Standard Flexible Flat  Both keys trapped, secondary key free to release actuator  440T-	440T-MDSLE20**
	Flexible		440T-MDSLE22**
	Flat		440T-MDSLE23**
	Standard		440T-MDSLJ10*⊗
Dual with secondary ejector key	Flexible	Standard Flexible Flat Flat Flat Flat Flat Flat Flat Flat	440T-MDSLJ11*⊗
	Flat Standard Flexible Frimary key	10.0000 dotadio	440T-MDSLJ12∗⊗

- \* Substitute the desired primary code for this symbol (key not included). See 3-107 for code selection.
- ⊗ Substitute the desired secondary code for this symbol (key included). See 3-107 for code selection.

#### **Accessories**

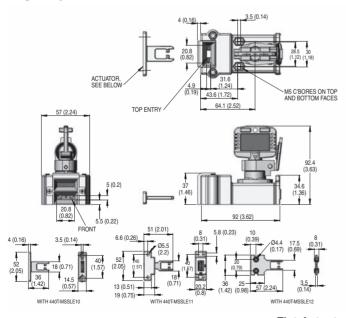
Description	Additional Information	Cat. No.
Stainless steel key		440T-AKEYE10⊗
Stainless steel ejector key	3-140	440T-AKEYE13⊗
Stainless steel replacement code barrel with dust cap	3-140	440T-ASCBE14*
Stainless steel weatherproof replacement dust cap		440T-ASFC10⊗
GD2 standard actuator	_	440G-A27011
GD2 flat actuator	_	440K-A11112
Fully flex actuator	_	440G-A27143

- \* Substitute the desired primary code for this symbol (key not included). See 3-107 for code selection.
- $\otimes$  Substitute the desired code for this symbol. See 3-107 for code selection.

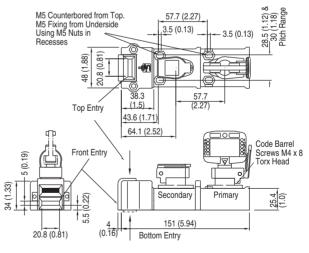
## Approximate Dimensions [mm (in.)]

Dimensions are not intended to be used for installation purposes.

#### Single Key Slamlock



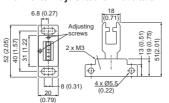
# Dual Key Slamlock



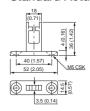
# Flat Actuator



#### Flexible/Adjustable Actuator



Standard Actuator

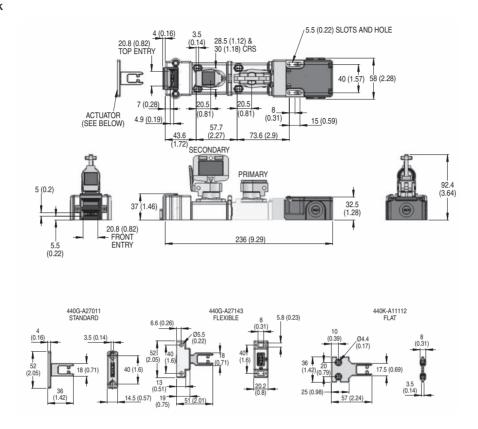


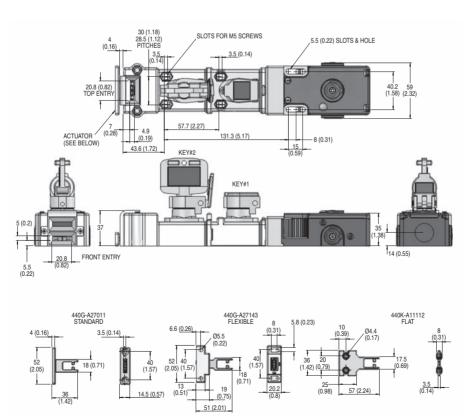


#### Approximate Dimensions [mm (in.)] (continued)

Dimensions are not intended to be used for installation purposes.

## **Dual Key Slamlock**





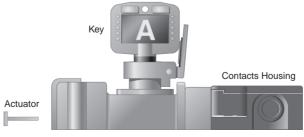


	Description	Approximate Dimensions [mm (in.)]	Cat. No.
	GD2 standard actuator	18 (0.71)	440G-A27011
	GD2 flat actuator	3.5 (0.14) 17.5 (0.69) (0.14) (0.14) (0.14)	440K-A11112
	Fully flex actuator	6.8 (0.27) Adjusting screws  2 x M3  2 x M3  4 x Ø5.5  (0.22)  8 (0.31)  4 x Ø5.5  (0.22)	440G-A27143
	Stainless steel key		440T-AKEYE10⊗
4000	Stainless steel replacement code barrel with dust cap	page 3-140	440T-ASCBE14*
200	Stainless steel weatherproof replacement dust cap		440T-ASFC10⊗

- $\star$  Substitute the desired primary code for this symbol (key not included). See 3-107 for code selection.
- $\otimes$  Substitute the desired code for this symbol. See 3-107 for code selection.

## **Typical Applications**

Actuator out, key trapped, safety contacts open, auxiliary contact closed.



Locking force = 2000 N (450 lb)





440J-A01N Bracket Shown with GD2 Actuator

With two additional screws, the right angle bracket can be mounted to the 440J enabling switch for horizontal mounting. An actuator can also be mounted for vertical use without the 440J-A01N bracket.

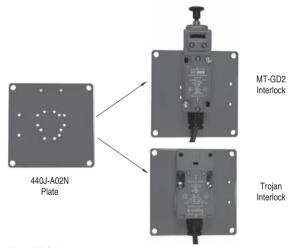




Horizontal Mounting

Vertical Mounting

The mounting plate (Cat. No. 440J-A02N) has multiple pre-drilled and tapped holes to facilitate mounting of a single 440K-MT (MT-GD2) or 440K-T (Trojan) interlock. Four additional through-holes at the corners allow mounting of the plate to a flat surface.



The MT-GD2 with the manual latch release should be used for horizontal actuator mounting. The Trojan should only be used with vertical mounting. To use the 440K-T (Trojan 6 or T15), the head must be rotated 180°. The Trojan GD2 models cannot be used with the 440J-A02N as its head cannot be rotated.

The recommended method for single-switch mounting is to use the 440K-MT (MT-GD2) with the latch release. The latch holds the contacts closed when the enabling switch is bumped or rattled. An alternative is to use the 440K-T (Trojan 6 or T15) with a vertical mounting. The holding force of these interlocks is enough to keep the contacts closed under minor bumps and rattles.







Vertical Mount with Trojan

In some applications, additional contacts are needed when the enabling switch is used. Two additional accessories are used to allow the enabling switch to interact with two interlocks.

Cat. No. 440J-A03N accessory mounts to the enabling switch base plate. This accessory has two sets of holes to accommodate either two standard or two GD2 actuators. This arrangement is used in conjunction with Cat. No. 440K-A04N accessory.



440J-A03N



Enabling Switch mounted on 440J-A03N, shown with two standard actuators

The U-shaped 440J-A04N can accommodate two interlocks: either 440K-MT or 440K-T. Using the 440J-A03N plate with dual actuators, a total of eight contacts, four in each switch, can be made available for the safety and control system.

