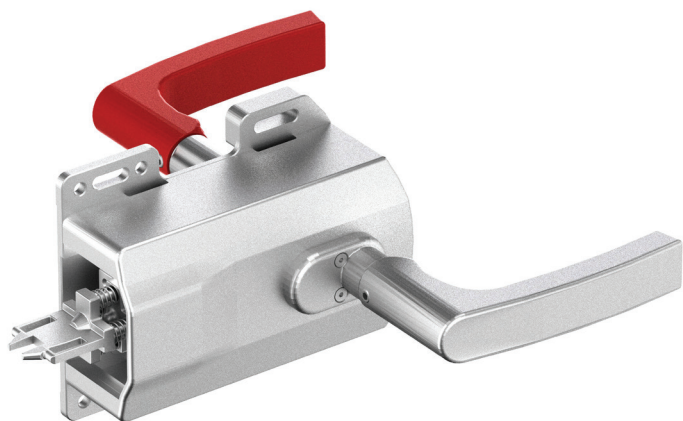




SAFEMASTER STS
Safety switch-
and key interlock system
Door handle actuator TG

Translation
of the original instructions

0278269

DOLD 
E. Dold & Söhne GmbH & Co. KG
 Bregstraße 18 • 78120 Furtwangen • Germany
 Phone: +49 7723 654-0 • Fax +49 7723 654356
 dold-relays@dold.com • www.dold.com

Content

Symbol and Notes Statement.....	12
General Notes	12
Notes	12
Product Description	13
Dimensions [mm].....	13
Function.....	13
Technical Data	13
Installation Example: TGR1CA	14
Installation Example: TGR1CA	14
Order References	14
Variants.....	14
Accessories	14
Order References: Door Handle Actuator WITHOUT Inside Handle	14
Order References: Door Handle Actuator WITH Inside Handle	14
Accessories Inner Handle / Right Stop.....	15
Accessories Inner Handle / Left Stop	15
Accessories Cover Cap	16
Accessories Mounting C.....	16
Accessories Mounting Kit.....	17
Accessories Actuators.....	18
Accessories CAK Actuator / CAK Actuator.....	18
Accessories J Actuator	18
Ordering Example 1.....	19
Ordering Example 2.....	19
Notice	30
Notice	31

Symbol and Notes Statement



DANGER:
Indicates that death or severe personal injury will result if proper precautions are not taken.



WARNING:
Indicates that death or severe personal injury can result if proper precautions are not taken.



CAUTION:
Indicates that a minor personal injury can result if proper precautions are not taken.



INFO:
Referred information to help you make best use of the product.



ATTENTION:
Warns against actions that can cause damage or malfunction of the device, the device environment or the hardware / software result.

General Notes

The product hereby described was developed to perform safety functions as a part of a whole installation or machine. A complete safety system normally includes sensors (SAFEMASTER STS System), evaluation units, signals and logical modules for safe disconnections. The manufacturer of the installation or machine is responsible for ensuring proper functioning of the whole system. DOLD cannot guarantee all the specifications of an installation or machine that was not designed by DOLD. The total concept of the control system into which the device is integrated must be validated by the user. DOLD also takes over no liability for recommendations which are given or implied in the following description. The following description implies no modification of the general DOLD terms of delivery, warranty or liability claims.

Notes



Risk!
Danger to life or risk of serious injuries.

- Hazards must be ruled out before a key can be entered and the movable part of the guard can then be opened!



INFO

- For information regarding use in the system and validation according to EN ISO 13849-2, see SAFEMASTER STS application guide.
- Take advantage of the advice of the **E. DOLD & SÖHNE GMBH & CO. KG** specialists regarding the choice of units and combination of a system.



ATTENTION !

- To avoid wrong usage (e.g. by overload, mounting position or usage in acid, alkaline or other hostile ambient conditions) the limitations of the product have to be observed. Please check in advance if your application requires the usage of the more robust stainless steel model of SAFEMASTER STS. The requirements of the mounting and operating instruction must be fulfilled.



Before installing, operating or maintaining this device, these instructions must be carefully read and understood.



The installation must only be done by a qualified electrician!



The installation must only be done by a qualified mechanic!



Do not dispose of household garbage!
The device must be disposed of in compliance with nationally applicable rules and requirements.

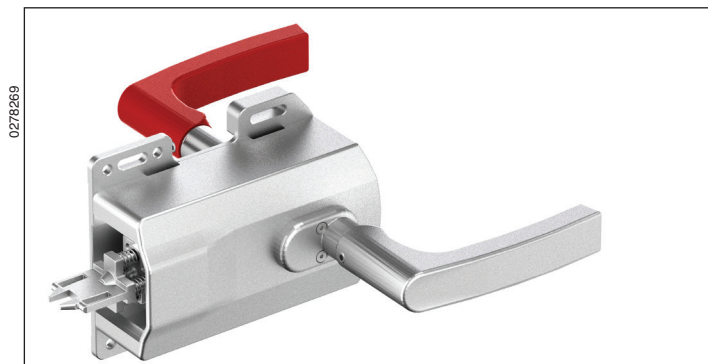


Storage for future reference.

To help you understand and find specific text passages and notes in the operating instructions, we have important information and information marked with symbols.

SAFEMASTER STS

Safety switch- and key interlock system Door handle actuator TG



Presentation: TGR1CA Right-hand hinge

STS-System Benefits

- EU-Test certificate according to the directive 2006/42/EG, annex IX
- For safety applications up to PLe/Category 4 according to DIN EN/ISO 13849-1
- Modular and expandable system
- Rugged stainless steel design
- Wireless mechanical safeguarding
- Combines the benefits of safety switch, locking module and
- Key transfer in a single system
- Easy installation through comprehensive accessories
- Protection against lock-in
- Coding level low, medium, high according to DIN EN ISO 14119:2014-03

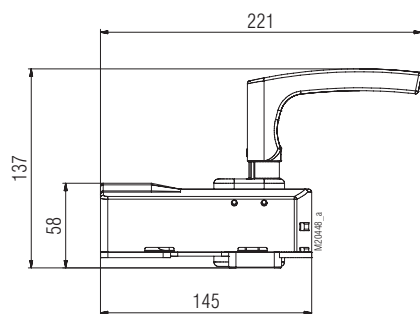
Features

- Actuator with rotary bolt
- Flexible, replaceable and adjustable actuator
- Can be coded
- Optionally with release function / inner handle
- Convertible for right-hand hinge / left-hand hinge
- Blocking device for hanging up padlocks

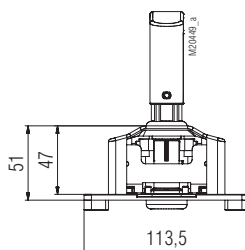
Product Description

The door handle actuators are used in connection with the SAFEMASTER STS units, which comes with integrated actuator modules A, B, D, E or K. Generally, it is fitted to the movable part of a separating guard device and is used to actuate the associated STS unit.

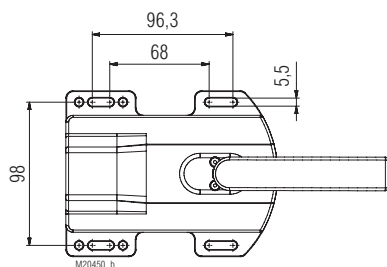
Dimensions [mm]



Front view



Left side view



Top view

Function

The door handle actuator can be mounted in conjunction with the flexible actuator CA and J. It serves as a door latch on hinged doors. Its special design permits height differences between door handle actuator and actuator module. This compensates for small assembly inaccuracies. In addition, the door handle actuator is designed for applications with high sheaving and pulling forces.

When the outer handle is pressed down, the actuator moves out of the SAFEMASTER STS unit so that the protective device can be opened. When the handle is returned to its initial position, the actuator moves into the unit and the guard can be closed again.

The optional inner handle only allows a door to be opened, not closed.

The inner handle can only be used usefully in the following combinations: Either directly above the switch units, such as SX, or in conjunction with the STS guard locking with escape release, such as ZRFA.

In this case, it should be noted that in conjunction with a ZRF-based unit, the escape release of the guard locking must be operated first. Only then the door handle actuator can be operated.

Please check whether the functions available meet your specific requirements.

ATTENTION !



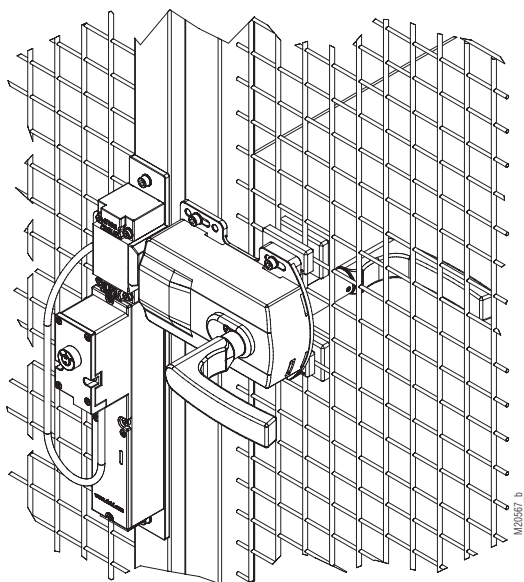
Condition: The gap to the safety gate and door frame has to be smaller than 12 mm.

Technical Data

Material

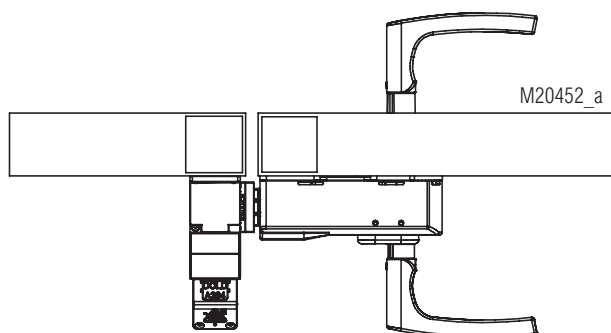
Actuator:	Stainless steel V4A / AISI 316
Springs:	V2A / AISI 304
Grip:	Aluminium

Installation Example: TGR1CA



Shown in the installation example ZRFBM with TGR1CA

Installation Example: TGR1CA



Variants

TGR0CA

- Door handle actuator:
- Right stop
 - Without inner handle
 - CA actuator

TGL0CA

- Door handle actuator:
- Left stop
 - Without inner handle
 - CA actuator

TGR1CA

- Door handle actuator:
- Right stop
 - With inner handle
 - CA actuator

TGL1CA

- Door handle actuator:
- Left stop
 - With inner handle
 - CA actuator

TGR0JA

- Door handle actuator:
- Right stop
 - Without inner handle
 - J actuator

TGL0JA

- Door handle actuator:
- Left stop
 - Without inner handle
 - J actuator

TGR1JA

- Door handle actuator:
- Right stop
 - With inner handle
 - J actuator

TGL1JA

- Door handle actuator:
- Left stop
 - With inner handle
 - J actuator

For further information, see customer information on actuator selection.

Included with every variant:

Mounting kit → For easy and safe mounting on the machine fence

Accessories

Mounting kit	ST2359
Article number:	0068736
For easy mounting on machines and plants	
Inner handle	ST2337
Article number:	0068737
For unlocking inside machines and plants	
CA actuator	ST2338
Article number:	0068429
JA actuator	ST2113
Article number:	0069302

Order References: Door Handle Actuator WITHOUT Inside Handle

Door handle actuator TGR0	ST2336.1
Article number:	0068390
Door handle actuator TGL0	ST2336.2
Article number:	0068391

Order References: Door Handle Actuator WITH Inside Handle

Door handle actuator TGR1	ST2336.11
Article number:	0069173
Door handle actuator TGL1	ST2336.12
Article number:	0069174

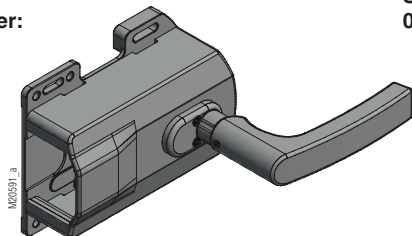
Order References

Door handle actuator right-hand hinge

TGR0

Article number:

ST2336.1
0068390

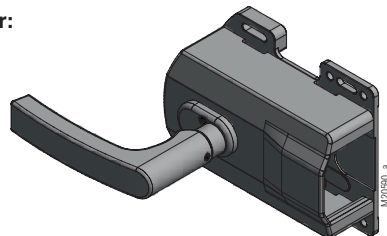


Door handle actuator left-hand hinge

TGL0

Article number:

ST2336.2
0068391

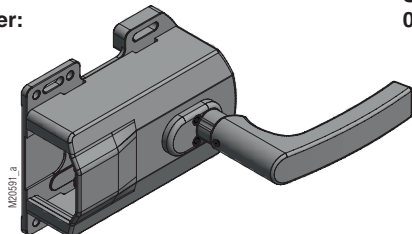


Door handle actuator right-hand hinge

TGR1

Article number:

ST2336.11
0069173

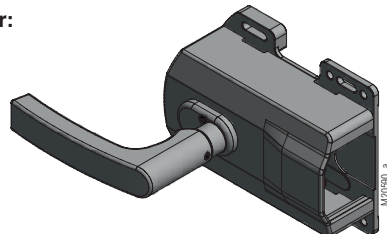


Door handle actuator left-hand hinge

TGL1

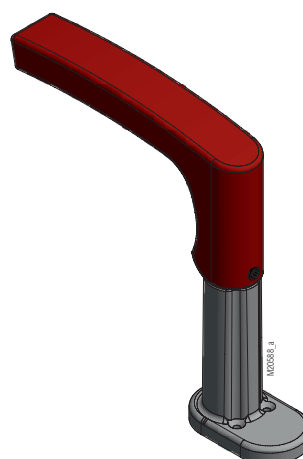
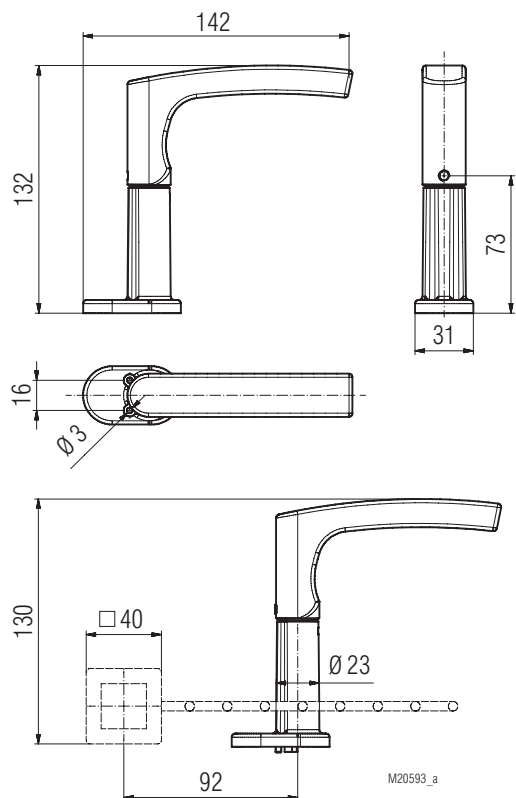
Article number:

ST2336.12
0069173



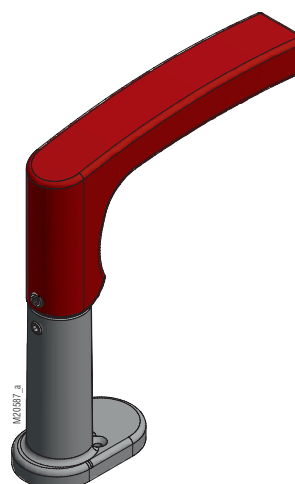
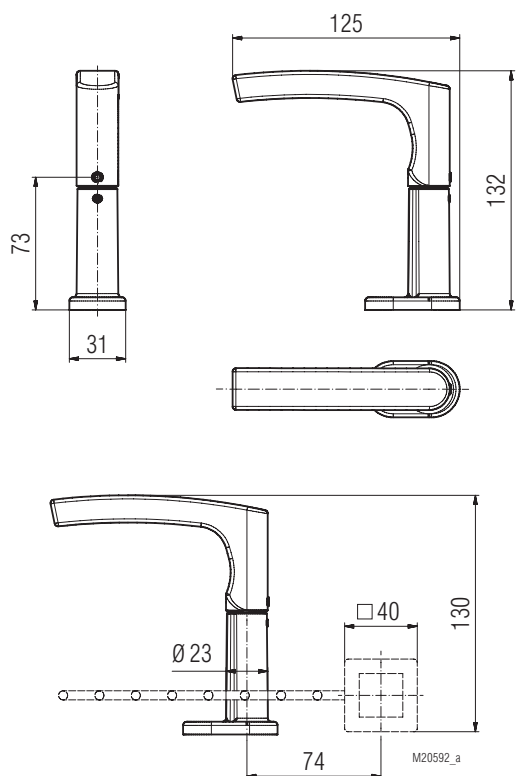
Right stop
Article number

ST2337
0068737



Left stop
Article number

ST2337.1
0068881

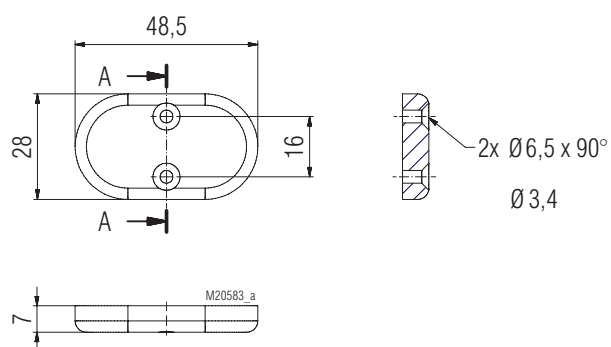


Accessories Cover Cap

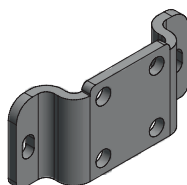


Cover cap
Article number

ST2360
0068938

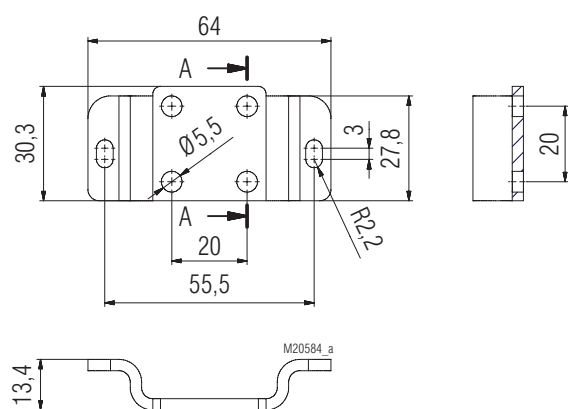


Accessories Mounting C



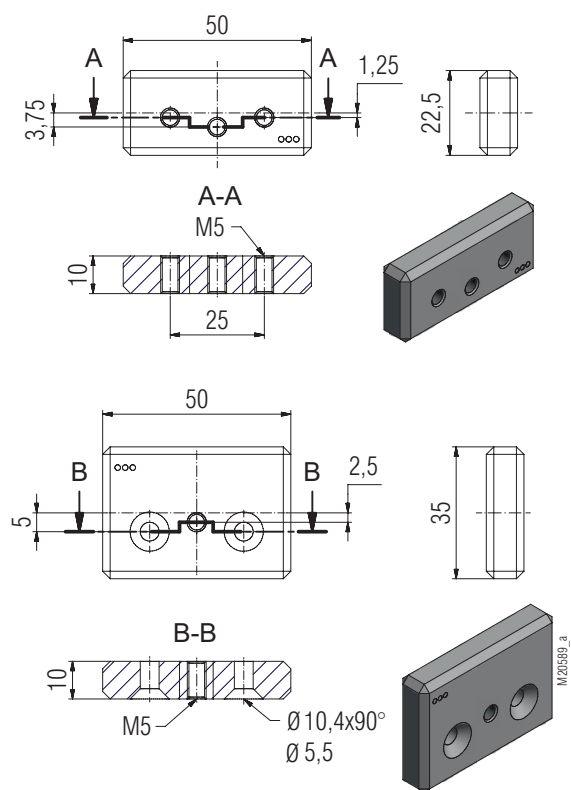
Mounting C
Article number

ST2360.1
0068955



Mounting Kit
Article number

ST2359
0068736



Accessories Actuators



INFO:
Please select the right actuator for your application:
CA- / CAK actuator
JA actuator

Accessories CAK Actuator / CAK Actuator

Flexible, adjustable, robust

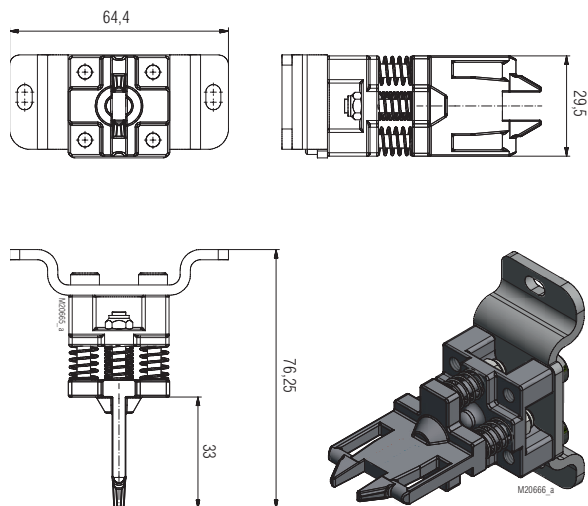
CAK actuator
Article number

ST2338
0068429

Flexible, adjustable, robust and codable

CAK actuator
Article number

ST2338.1
0068430

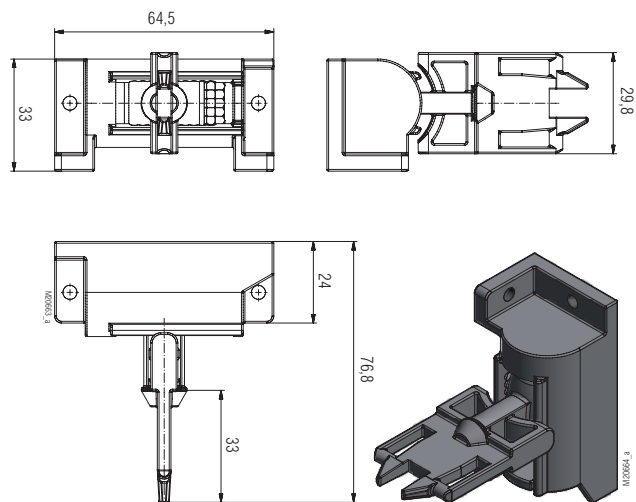


Accessories J Actuator

Self-adjusting, 4 degrees of freedom, robust and codable

JA actuator
Article number

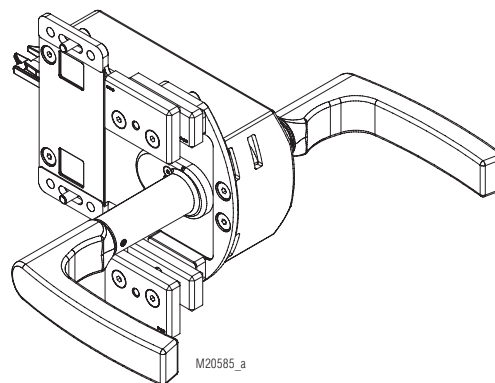
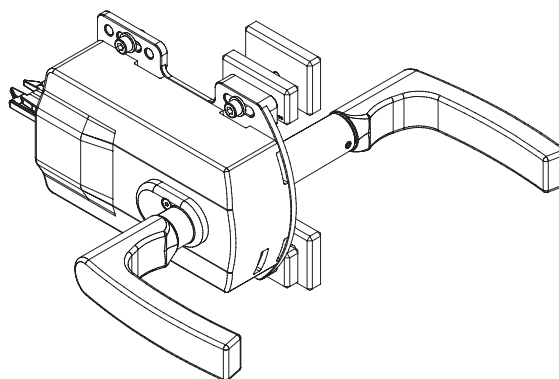
ST2313
0069302



Ordering Example 1

TG R 1 CAK

- CA actuator, coded
- WITH release / inside handle
(optional, see accessories)
- Right stop
- Door handle actuator



Ordering Example 2

TG L 0 JK

- J actuator, coded
- WITHOUT unlocking / inside handle
(= with cover cap)
- Left stop
- Door handle actuator

