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Automation



// SYSTEMATIC CONTROL SWITCHGEAR

Multifunction handles





4 The company

PRODUCTS



- 6 Multifunction handles thermoplastic
- 10 Series TG



- 26 Multifunction handles metal
- 28 Series TGM
- 36 Appendix
- 36 Accessories
- 37 Wiring example



// SAFE SWITCHGEAR FOR DEMANDING AND CRITICAL APPLICATIONS







Extreme



»Safe switchgear for demanding and critical applications«. True to this motto, steute has been providing its customers with innovative, practical and durable switchgear solutions — for over 50 years.

When our customers are successful, so are we. Because we always focus on our customers, our company has grown steadily and sustainably over the last decades. Steute is committed to continuing this growth – in close cooperation with our customers.

We are situated in East Westphalia, a key region for machine building and electrical goods manufacturing. It is home to qualified specialists committed to developing and manufacturing innovative products. It is also the location of renowned universities, research and educational institutions to which we maintain healthy contacts.

Markets are no longer restricted by national borders. This is why our products are developed and tested for extreme conditions all over the world. We take care to ensure that our products are always certified according to the latest international standards. In every industrial or emerging nation in the world, steute has access to qualified specialists who can guarantee competent support and a quick service.

As a medium-sized company we are able to react with speed to customer wishes and market trends. We are continually developing innovative products and using new technologies as we consistently open up new fields of application for our switchgear.

steute is currently active in four different business fields, producing switchgear, sensors and control units for use in industry and in medical equipment:

Wireless

Cable free switchgear and sensors for use in machinery and process plants. These industrial-strength wireless switches communicate with higher level control systems via reliable radio transmission. »Energy harvesting« can play a major role in these products.

Automation

Standard and customised switchgear for machinery and process plants. Tried and tested electromechanical and non-contact technologies for classical applications in industrial automation and process control – always with a view to the latest global requirements.

Extreme

Switchgear and sensors for use in extreme environments or under extreme conditions. Certified products for use in hazardous areas worldwide (e. g. ATEX, IECEx, GOST).

Meditec

A comprehensive range of standard and customised foot and hand controls for medical devices, meeting the highest ergonomic and availability requirements. Produced in accordance with the certified EN ISO 13485 quality management system for medical products.

The following information provides an overview of our standard range of switchgear for complex and demanding applications. We will be happy to provide you with any additional information you require. If you cannot find the solution for your application: just get in touch. We have already helped numerous customers by developing "tailormade" switchgear for their individual needs.

Marc Stanesby Managing Director steute Schaltgeräte GmbH & Co. KG











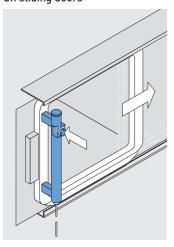
The door handle switches are suitable for unlocking of solenoid interlocks on sliding, hinged and removable guard doors that need to be closed to secure the required operators' safety. By integration of the emergency-stop, start, enabling, reset and LED display function the door handle switch allows for additional monitoring and operation of the machine directly at the door or flap.

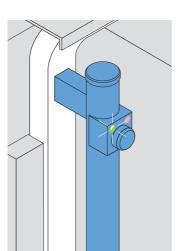
Design and operating principle

The door handle switches are available with NO or change-over contact. The emergency-stop push-button can either be provided with one or two NC contacts and conform to EN 418. All door handle switches shown in this chapter are equipped with a plug-in connector. Different colours of push-button caps for door handle switches series TG and TGM are available on request. For customised versions we give support by providing a »selection guide« at the end of the chapters TG and TGM. This page should be faxed to steute. Do not hesitate to contact us.

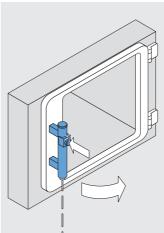
All door handle switches described in this chapter bear the CE mark according to the low voltage directive o6/95/EG.

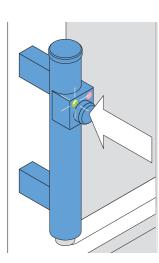
Application On sliding doors



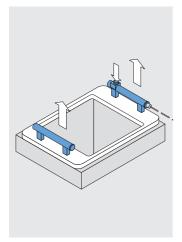


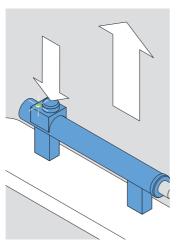
On hinged doors



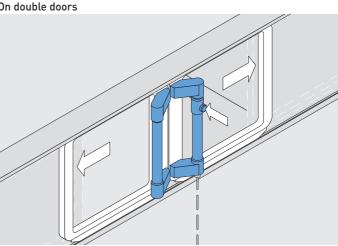


On removable doors





On double doors



// Series TG

Features/options

- Thermoplastic handle
- High life time
- Green and red LED
- Green enabling push-button:
 TG-W GR xx: single break change-over, order No. 97 75 50 01
 TG-ÖS GR xx: 1 NC/1 NO contact, order No. 97 15 50 02
- Protection class IP 65
- With plug-in connector M12 x 1, 8-poles
- Available as radio switch with solar cell, for detailed information see catalogue »Industrial switchgear with radio technology«

// TG

Technical data

Directives IEC/EN 60947-5-1

Enclosure Glassfibre reinforced, shockproof

thermoplastic, POM
Protection class IP 65 per IEC/EN 60529
Termination Plug-in connector, A-coded

U_e LEDs max. 24 VDC +10%

U_c 0.1 VAC/DC . . . 25 VAC/42 VDC

Rated switching

current max. 0.1 A AC/DC

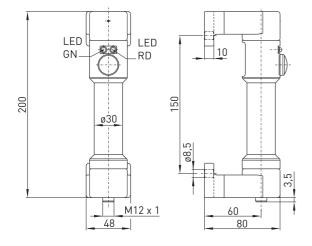
Rated switching

capacity max. 0.6 W

Degree of pollution 3

Mechanical life > 1 million operations

Ambient temperature -25 ... +55 °C



TG-W GR xx TG-ÖS GR xx LEDs GY5 + GN3 RD YE 4 Enabling push-button BN 2 - A 8 RD Plug-in configuration (view from plug side) BN 2 - A 8 RD WH1 - 7 BU BN 2 - A 8 RD RD 8 BN 2 - A 8 RD BN 2 - A 8 RD BN 3 - A 8 RD BN 4 - A 8 RD BN 5 - A 8 RD BN 6 - A 8 RD BN 7 - A 8 RD BN 7 - A 8 RD BN 8 - A 8 RD BN 9 - A 8 RD BN 9 - A 8 RD BN 1 - A 8 RD BN 2 - A 8 RD BN 3 - A 8 RD BN 4 - A 8 RD BN 5 - A 8 RD BN 7 - A 8 RD BN 7 - A 8 RD BN 9 - A 8 RD BN 1 - A 8 RD BN 2 - A 8 RD BN 1 - A 8 RD BN 2 - A 8 RD BN 2 - A 8 RD BN 1 - A 8 RD BN 2 - A 8 RD BN 1 - A 8 RD BN 2 - A 8 RD BN 2 - A 8 RD BN 2 - A 8 RD BN 3 - A 8 RD BN 4 - A 8 RD BN 5 - A 8 RD BN 6 - A 8 RD BN 7 - A 8 RD BN 7 - A 8 RD BN 9 - A 8 RD BN 1 - A 8 RD BN 2 - A 8 RD BN 3 - A 8 RD BN 4 - A 8 RD BN 5 - A 8 RD BN 7 - A 8 RD BN 7 - A 8 RD BN 7 - A 8 RD BN 9 - A 8 RD BN 9 - A 8 RD BN 9 - A 8 RD BN 1 - A 8 RD BN 2 - A 8 RD BN 2 - A 8 RD BN 2 - A 8 RD BN 3 - A 8 RD BN 4 - A 8 RD BN 5 - A 8 RD BN 6 - A 8 RD BN 7 - A 8 RD BN 9 - A

Multifunction handles // Series TG, variants

Features/options

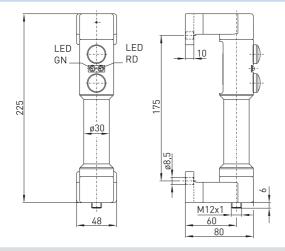
- Blue start push-button: 1 NO contact
- Green and red LED
- Green enabling push-button: single break change-over
- Protection class IP 65
- With plug-in connector M12 x 1, 8-poles
- Order No. 97 75 59 21

Features/options

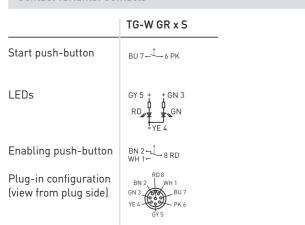
- Grey start push-button: 1 NO contact
- Green and red LED
- Green enabling push-button: 1 NO contact
- Protection class IP 65
- With plug-in connector M12 x 1, 8-poles



// 2 push-buttons

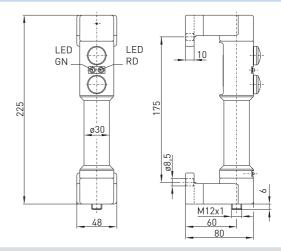


Contact variants: Contacts





// 2 push-buttons



Contact variants: Contacts

	TG-S GR x S
Start push-button	BU 7 → 1 → 6 PK
LEDs	GY 5 + + GN 3 RD + GN GN
Enabling push-button	WH 1 ← ¹ → 8 RD
Plug-in configuration (view from plug side)	RD 8 BN 2 WH 1 GN 3 YE 4 GY 5 PK 6

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Multifunction handles // Series TG, variants

Features/options

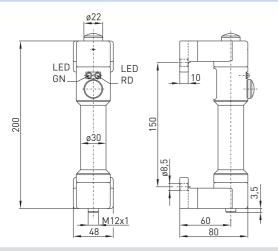
- Grey start push-button: 1 NO contact
- Green and red LED
- Green enabling push-button: 1 change-over contact
- Protection class IP 65
- With plug-in connector M12 x 1, 8-poles
- Order No. 97 75 59 04

Features/options

- Green enlighted start push-button: 1 NO contact, glow lamp
- Green and red LED
- Green enabling push-button: 1 NO contact
- Protection class IP 65
- With plug-in connector M12 x 1, 8-poles
- Order No. 97 95 59 02



// Push-button top, 1 push-button

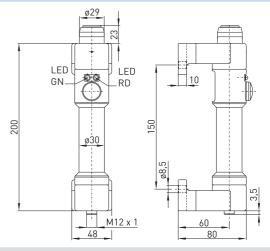


Contact variants: Contacts

	TG-W GR x S
Start push-button	BU 7 — — 6 PK
LEDs	GY 5 + + GN 3 RD YE 4
Enabling push-button	BN 2 → I WH 1 ← 8 RD
Plug-in configuration (view from plug side)	RD 8 BN 2 WH 1 GN 3 EV 5 BU 7 YE 4 GY 5 PK 6



// Push-button top enlighted, 1 p.-button



Contact variants: Contacts

Contact variants: Contacts		
	TG-S GR x SG	
Start push-button, enlighted	BU 7 6 PK	
LEDs	GY 5 + + GN 3 RD + GN 5 	
Enabling push-button	WH 1 → 8 RD	
Plug-in configuration (view from plug side)	RD 8 BN 2 WH 1 GN 3 BU 7 YE 4 GY 5	

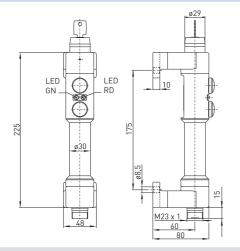
- Key switch: single break change-over, latching
- Grey start push-button: 1 NO contact
- Green and red LED
- Green enabling push-button: single break change-over
- Protection class IP 65
- With plug-in connector M23 x 1, 12-poles
- Order No. 97 75 59 07

Features/options

- Emergency-stop push-button: TG-W GR 1Ö x 1-channel ⊖, order No. 97 75 50 02 TG-W GR 2Ö x 2-channel ⊖, order No. 97 75 59 03
- Emergency-stop push-button per EN 418
- Green and red LED
- Green enabling push-button: single break change-over
- Protection class IP 65
- TG-W GR 1Ö x: with plug-in connector M12 x 1, 8-poles TG-W GR 2Ö x: with plug-in connector M23 x 1, 12-poles



// Key switch, 2 Push-buttons

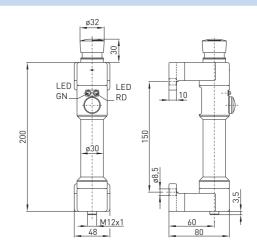


Contact variants: Contacts

	TG-W GR x SW
Key switch	9 - 3 11 - 10
LEDs	GN # RD
Start-/Enabling push-button	78 54
Plug-in configuration (view from plug side)	10 0 0 0 7 2 0 0 0 7 3 0 0 6



// Emergency-stop p.-button, 1 p.-button



Contact variants: Contacts

	TG-W GR 1Ö x	TG-W GR 2Ö x
Emergency-stop push-button	BU 7→ 6 PK	4-1-5 6-1-7
LEDs	GY 5 + + GN 3 RD YE 4	2+ +3 RD GN
Enabling push-button	BN 2 → T → 8 RD WH 1 ← 8 RD	8 → Ĭ 10 ← 9
Plug-in configuration (view from plug side)	BN 2 WH 1 GN 3 BU 7 YE 4 GY 5	10 0 0 7 2 0 0 0 7 3 0 0 6

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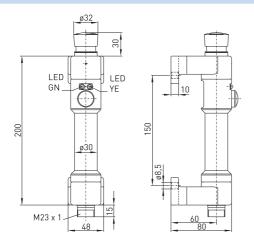
- Emergency-stop push-button, 2-channel \ominus
- Emergency-stop push-button per EN 418
- Green and yellow LED
- Black enabling push-button: 1 NC/1 NO contact
- Protection class IP 65
- With plug-in connector M23 x 1, 12-poles
- Order No. 97 15 59 02

Features/options

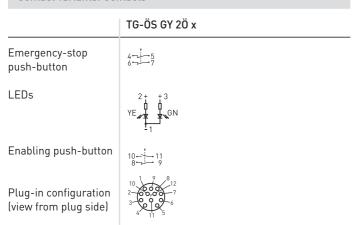
- Emergency-stop push-button, 2-channel \ominus
- Emergency-stop push-button per EN 418
- Black start push-button: 1 NO contact
- Black enabling push-button: 1 NO contact
- Protection class IP 65
- With plug-in connector M12 x 1, 8-poles
- Order No. 97 95 59 12



// Emergency-stop p.-button, 1 p.-button

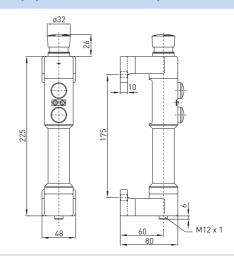


Contact variants: Contacts





// E-stop push-button, 2 push-buttons



Contact variants: Contacts

oomaat variamen oomaats		
	TG-S xx 2Ö S	
Emergency-stop push-button	GY 5 6 PK BU 7 8 RD	
Enabling push-button	GN 3 4 YE	
Start push-button	WH 1 →	
Plug-in configuration (view from plug side)	RD 8 BN 2 WH 1 GN 3 BU 7 YE 4 GY 5	

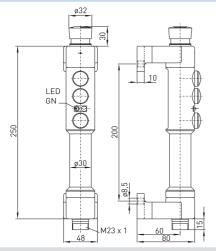
- Emergency-stop push-button, 2-channel ⊖
- Emergency-stop push-button per EN 418
- Black start push-button: 1 NO contact
- Grey reset push-button: 1 NO contact
- Green LED
- Green enabling push-button: 1 NO contact
- Protection class IP 65
- With plug-in connector M23 x 1, 12-poles
- Order No. 97 95 59 06

Features/options

- Emergency-stop push-button, 2-channel ⊖
- Emergency-stop push-button per EN 418
- Red enlighted start push-button: 1 NO contact
- Green and red LED
- Green enabling push-button: 1 NO contact
- Protection class IP 65
- With plug-in connector M23 x 1, 12-poles
- Order No. 97 95 59 03



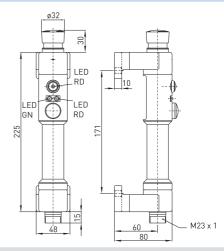
// E-stop push-button, 3 push-buttons



Contact variants: Contacts

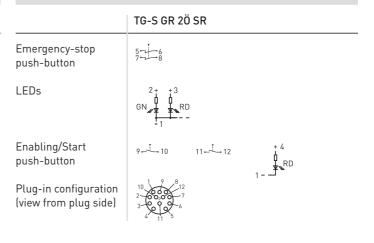


// E-stop p.-button, enlighted p.-button



Contact variants: Contacts

Contact variants: Contacts		
	TG-S G 2Ö SS	
Emergency-stop push-button	5-1-6 7-1-8	
LEDs	9 9 GN - 2	
Start/Reset/ Enabling push-button	104 13 1112	
Plug-in configuration (view from plug side)	10 9 8 12 2 6 0 0 7 3 6 0 6	



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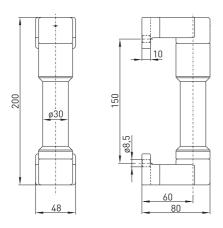
- Door handle without electrical function
- Application on double doors
- Length: 200 mmm
- Order No. 97 90 09 01

Features/options

- Door handle without electrical function
- Application on double doors
- Length: 225 mmm
- Order No. 97 90 09 04



// Without electrical function

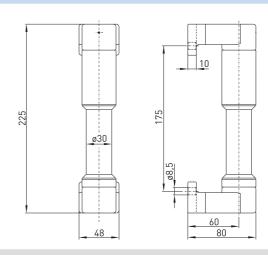


Contact variants: Contacts

	TG-x-150
Without electrical function	

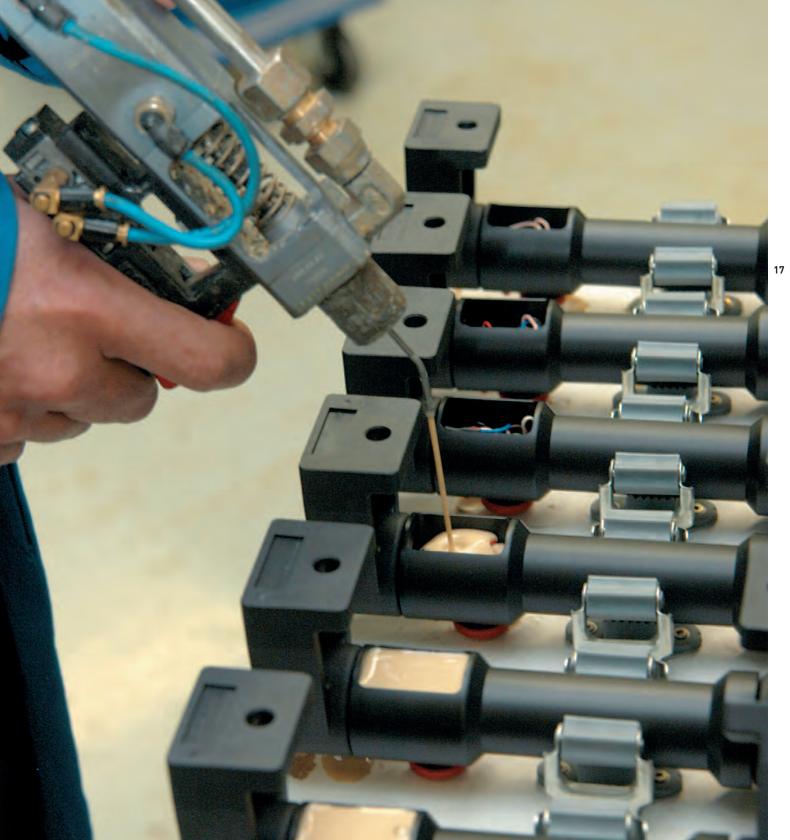


// Without electrical function



Contact variants: Contacts

	TG-x-175
Without electrical function	

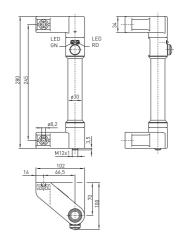


- Green and red LED
- Green enabling push-button: single break change-over
- Protection class IP 65
- With plug-in connector M12 x 1, 8-poles
- TG-W GR xx: order No. 97 75 59 02

- Variant for left-hinged doors
- Green and red LED
- Green enabling push-button: single break change-over
- Protection class IP 65
- With plug-in connector M12 x 1, 8-poles



// Mounting left side, 1 push-button



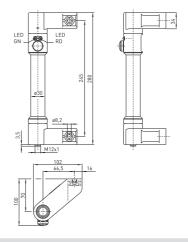
TG-ÖS GR xx TG-W GR xx LEDs Enabling push-button Plug-in configuration

Contact variants: Contacts

(view from plug side)



// Mounting right side, 1 push-button



Contact variants: Contacts

	TG-W GR xx	TG-ÖS GR xx
LEDs	GY 5 + + GN 3 RD YE 4	GY 5 + + GN 3 RD + GN
Enabling push-button	BN 2 → T WH 1 ← 8 RD	WH1
Plug-in configuration view from plug side)	RD8 BN 2 WH 1 GN 3 BU 7 YE 4 GY 5	RD8 BN 2 WH 1 GN 3 BU 7 YE 4 GY 5

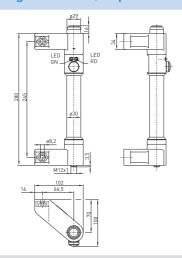
- Variant for right-hinged doors
- Green enlighted start push-button: 1 NO contact, glow lamp
- Green and red LED
- Green enabling push-button: 1 NO contact
- Protection class IP 65
- With plug-in connector M12 x 1, 8-poles
- Order No. 97 95 59 01

Features/options

- Variant for left-hinged doors
- Green enlighted start push-button: 1 NO contact, glow lamp
- Green and red LED
- Green enabling push-button: 1 NO contact
- Protection class IP 65
- With plug-in connector M12 x 1, 8-poles



// Mounting left side, 2 push-buttons



Contact variants: Contacts

Start push-button, enlighted

BU 7 1 6 PK

BN 2

GN

YE 4 -

BN 2

GN

SN 2

GN

YE 4 -

BN 2

GN

SN 3

FN BU 7

YE 4

BU 7

YE 4

BU 7

YE 4

BU 7

YE 4

GN 3

FN BU 7

YE 4

GN S

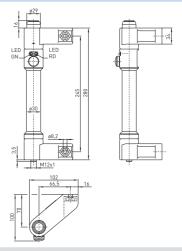
FN BU 7

YE 4

FN BU 7



// Mounting right side, 2 push-buttons



Contact variants: Contacts

	TG-S GR x SG		
Start push-button, enlighted	BU 7 — 6 PK	+ BN 2 GN YE 4 -	
LEDs	GY 5 + + GN 3 RD - YE 4		
Enabling push-button	WH 1 ← ₹ 8 RD		
Plug-in configuration (view from plug side)	RD 8 BN 2 WH 1 GN 3 BU 7 YE 4 GY 5		

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Multifunction handles // Series TG, variants

Features/options

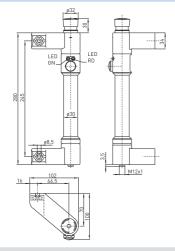
- Variant for right-hinged doors
- Emergency-stop push-button: TG-W GR 1Ö x 1-channel ⊖ TG-W GR 2Ö x 2-channel ⊖
- Emergency-stop push-button per EN 418
- Green and red LED
- Green enabling push-button: single break change-over
- Protection class IP 65
- TG-W GR 1Ö x: with plug-in connector M12 x 1, 8-poles TG-W GR 2Ö x: with plug-in connector M23 x 1, 12-poles

Features/options

- Variant for left-hinged doors
- Emergency-stop push-button: TG-W GR 1Ö x 1-channel ⊖, order No. 97 75 59 01 TG-W GR 2Ö x 2-channel ⊖, order No. 97 75 59 14
- Emergency-stop push-button per EN 418
- Green and red LED
- Green enabling push-button: single break change-over
- Protection class IP 65
- TG-W GR 1Ö x: with plug-in connector M12 x 1, 8-poles TG-W GR 2Ö x: with plug-in connector M23 x 1, 12-poles



// Mounting left side, E-stop push-button

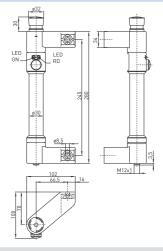


Contact variants: Contacts

	TG-W GR 1Ö x	TG-W GR 2Ö x
Enabling push-button	BN 2 → ↓ 8 RD WH 1 ← 8 RD	8 - J 9 10 - 9
LEDs	GY 5 + + GN 3 RD + GN	2+ +3 RD GN
Emergency-stop push-button	BU 7	4 - 5 6 - 7
Plug-in configuration (view from plug side)	RD8 BN 2 WH 1 GN 3 BU 7 YE 4 GY 5	10 1 9 8 12 2 6 0 0 7 3 4 11 5 6

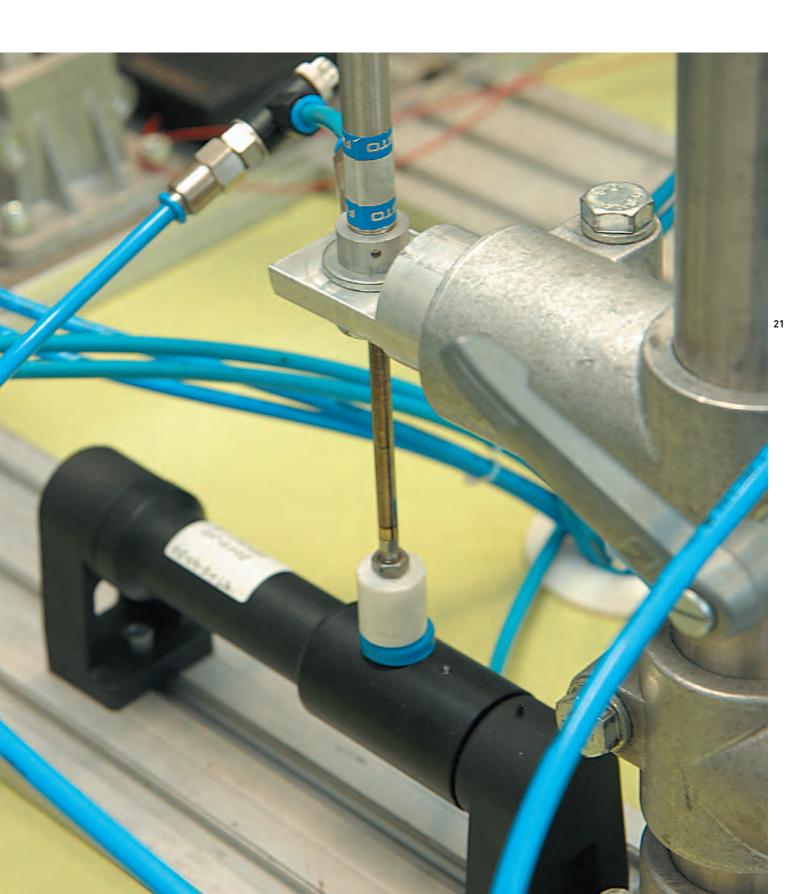


// Mounting right side, E-stop p.-button



Contact variants: Contacts

	TG-W GR 1Ö x	TG-W GR 2Ö x
Enabling push-button	BN 2 → ↓ 8 RD WH 1 ← 8 RD	8 → T → 9 10 ← 9
LEDs	GY 5 + + GN 3 RD + GN	RD, 4 + 3 GN
Emergency-stop push-button	BU 7 6 PK	4-1-5 67
Plug-in configuration (view from plug side)	BN 2 WH 1 GN 3 BU 7 YE 4 GY 5	10 7 8 12 2 6 0 7 7 3 6 6 6



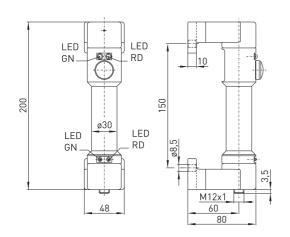
- Green enabling push-button
- Green and red LED
- Protection class IP 65
- With plug-in connector M12 x 1, 4-poles, A-coded
- Order No. 97 95 59 10

Features/options

- Grey start push-button
- Green and red LED
- Blue enabling push-button
- Protection class IP 65
- With plug-in connector M12 x 1, 4-poles, A-coded
- Order No. 97 95 59 07



// TG-AS-Interface, 1 push-button

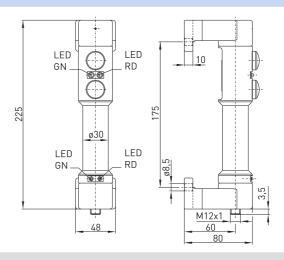


Contact variants: Contacts

	TG-S GR xx-A
PIN 1	AS-Interface +
PIN 2	not configured
PIN 3	AS-Interface –
PIN 4	not configured
Plug-in configuration (view from plug side)	2 3



// TG-AS-Interface, 2 push-buttons



Contact variants: Contacts

	TG-S GR x S-A
PIN 1	AS-Interface +
PIN 2	not configured
PIN 3	AS-Interface –
PIN 4	not configured
Plug-in configuration (view from plug side)	2 3

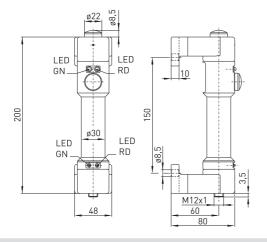
- Grey start push-button
- Green and red LED
- Green enabling push-button
- Protection class IP 65
- With plug-in connector M12 x 1, 4-poles, A-coded
- Order No. 97 95 59 11

Features/options

- AS-Interface Safety at Work
- Emergency-stop push-button per EN 418
- Green enabling push-button
- Green and red LED
- Protection class IP 65
- With plug-in connector M12 x 1, 4-poles, A-coded



// TG-AS-Interface, Push-button at top

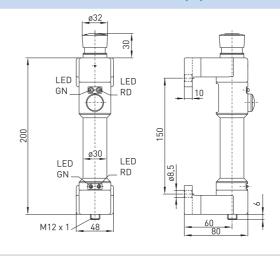


Contact variants: Contacts

	TG-S GR-x S-A
PIN 1	AS-Interface +
PIN 2	not configured
PIN 3	AS-Interface –
PIN 4	not configured
Plug-in configuration (view from plug side)	2 2 3



// TG-AS-Interface, E-stop push-button



Contact variants: Contacts

	TG-S GR x S-A-AS
PIN 1	AS-Interface +
PIN 2	not configured
PIN 3	AS-Interface –
PIN 4	not configured
Plug-in configuration (view from plug side)	2 3

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Multifunction handles

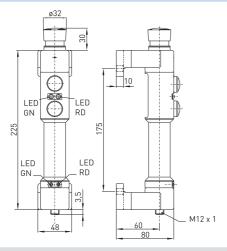
// Series TG, AS-Interface variants

Features/options

- AS-Interface Safety at Work
- Emergency-stop push-button per EN 418
- Grey start push-button
- Green and red LED
- Green enabling push-button
- Protection class IP 65
- With plug-in connector M12 x 1, 4-poles, A-codiert
- Order No. 97 95 58 01

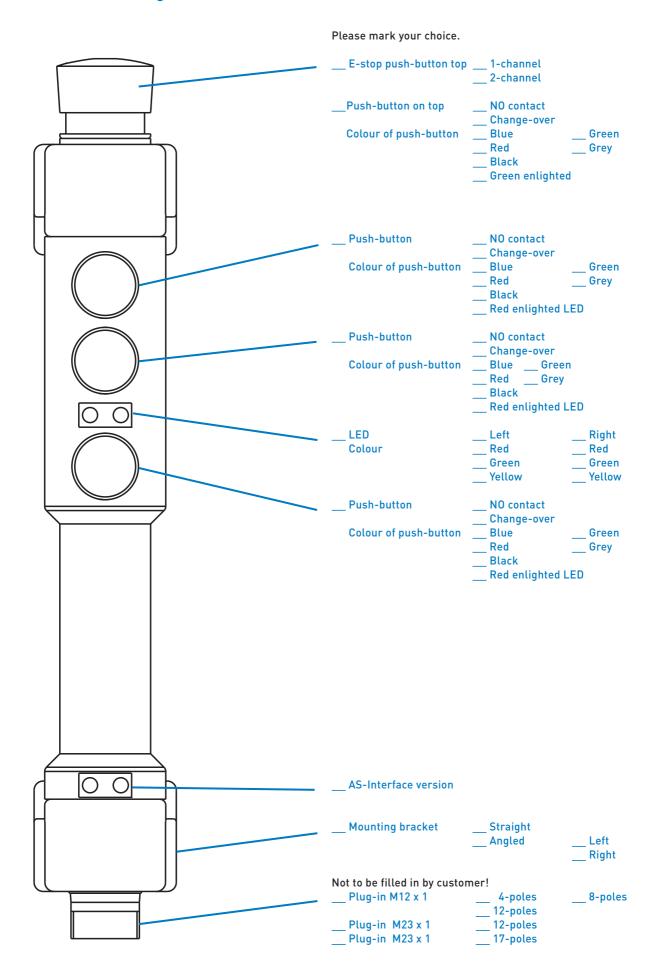


// TG-AS-Interface, E-stop push-button



Contact variants: Contacts

	TG-S GR 2Ö S-A-AS
PIN 1	AS-Interface +
PIN 2	not configured
PIN 3	AS-Interface –
PIN 4	not configured
Plug-in configuration (view from plug side)	2 2 3







Multifunction handles metal

// Series TGM
from page 28



Multifunction handles

// Series TGM

Features/options

- Metal door handle
- High life time
- Blue enabling push-button: single break change-over or 1 NC/1 NO contact
- Green and red LED
- Protection class IP 67
- With plug-in connector M12 x 1, 8-poles
- Available as radio switch with solar cell, for detailed information see catalogue »Industrial switchgear with radio technology«
- Different door handle available on request



Technical data

Standards IEC/EN 60947-5-1

Enclosure Stainless steel 1.4301 (V2A), aluminium silver

or black abodised

Protection class IP 67 per IEC/EN 60529
Termination Plug-in connector, A-coded

U_e LEDs max. 24 VDC +10%

U_c 0.1 VAC/DC . . . 25 VAC/42 VDC

Rated switching

current max. 0.1 A AC/DC

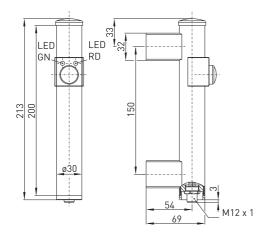
Rated switching

capacity max. 0.6 W

Degree of pollution 3

Mechanical life > 1 million operations

Ambient temperature -25 ... +55 °C



Multifunction handles

// Series TGM, variants

Features/options

- Stainless steel V2A
- Green and red LED
- Blue enabling push-button: TGM-W GR xx: single break change-over

TGM-ÖS GR xx: 1 NC/1 NO contact, order No. 97 15 50 03

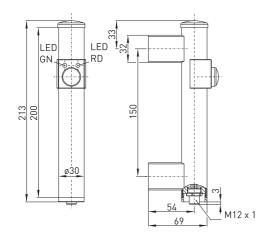
- Protection class IP 67
- With plug-in connector M12 x 1, 8-poles
- Available as radio switch with solar cell, for detailed information see catalogue »Industrial switchgear with radio technology«
- Different door handle available on request

Features/options

- Stainless steel V2A
- Blue start push-button: 1 NO contact
- Green and red LED
- Green enabling push-button: 1 NO contact
- Protection class IP 67
- With plug-in connector M12 x 1, 8-poles
- Available as radio switch with solar cell, for detailed information see catalogue »Industrial switchgear with radio technology«
- Different door handle available on request
- Order No. 97955937



// 1 Push-button

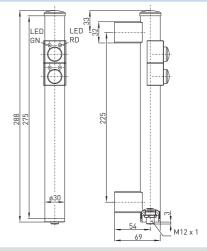


Contact variants: Contacts

	TGM-W GR xx	TGM-ÖS GR xx
LEDs	GY 5 + + GN 3 RD YE 4	GY 5 + GN 3 RD GN
Enabling push-button	BN 2 → 1 8 RD WH 1 ←	WH1 7 BU BN 2 8 RD
Plug-in configuration (view from plug side)	BN 2 WH 1 GN 3 GG BU 7 YE 4 GY 5	RD 8 BN 2 WH 1 GN 3 YE 4 GY 5



// 2 Push-buttons



Contact variants: Contacts

	TGM-S GR x S	
Start push-button	BU 7 - 1 - 6 PK	
LEDs	GY 5 + + GN 3 RD GN	
Enabling push-button	WH 1 ← → 8 RD	
Plug-in configuration (view from plug side)	RD 8 BN 2 WH 1 GN 3 YE 4 GY 5	

- Stainless steel V2A
- Blue start push-button: 1 NO contact
- Green and red LED
- Green enabling push-button: 1 NO contact
- Red stop push-button: 1 NO contact
- Protection class IP 67
- With plug-in connector M12 x 1, 12-poles
- Available as radio switch with solar cell, for detailed information see catalogue »Industrial switchgear with radio technology«
- Different door handle available on request

Features/options

- Stainless steel V2A
- Variant with mounting brackets for mounting from outside
- Green and red LED
- Green enabling push-button:

TGM-W GR xx: single break change-over TGM-ÖS GR xx: 1 NC/1 NO contact

- Protection class IP 67
- With plug-in connector M12 x 1, 8-poles

// Mounting bracket

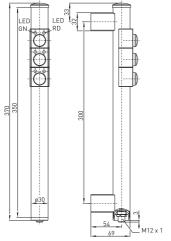
- Different door handle available on request

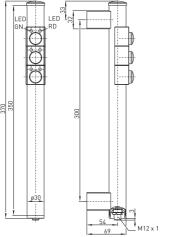




// Mounting bracket

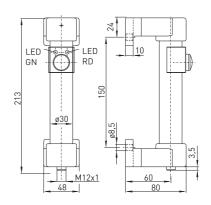
// 3 Push-buttons





Contact variants: Contacts

	TGM-S GR x SS
Start/Enabling/ Stop push-button	RD 9 — VT 10 BK 7 — GY 8 GY/PK 11 — RD/BU12
LEDs	BU 2 + +WH 3 RD GN
Plug-in configuration (view from plug side)	BN 1 RD 9 GY 8 VT 10 BU 2 RD/BU 12 BU 2 PK 5 GN 4 GY/PK 11



Contact variants: Contacts

	TGM-W GR xx	TGM-ÖS GR xx
LEDs	GY 5 + + GN 3 RD YE 4	GY 5 + + GN 3 RD YE 4
Enabling push-button	BN 2 → 1 → 8 RD WH 1 ←	WH1→ 7 BU BN 2→ 8 RD
Plug-in configuration (view from plug side)	BN 2 WH 1 GN 3 BU 7 YE 4 GY 5	RD 8 BN 2 WH 1 GN 3 BU 7 YE 4 GY 5

- Stainless steel V2A
- Emergency-stop push-button per EN 418: TGM-W GR 1Ö x 1-channel ⊖ TGM-W GR 2Ö x 2-channel ⊖
- Protection class IP 67
- With plug-in connector M12 x 1, 8-poles
- Different door handle available on request

Features/options

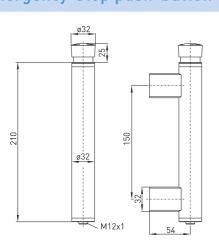
- Stainless steel V2A
- Emergency-stop push-button per EN 418: TGM-W GR 1Ö x 1-channel ⊖ TGM-W GR 2Ö x 2-channel ⊖, order No. 97 75 50 04
- Green and red LED
- Blue enabling push-button: single break change-over
- Protection class IP 67
- TGM-W GR 1Ö x: with plug-in connector M12 x 1, 8-poles TGM-W GR 2Ö x: with plug-in connector M12 x 1, 12-poles

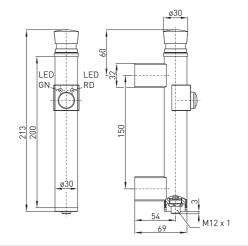
// E-stop push-button, 1 push-button

- Different door handle available on request



// E-stop push-button, 1 push-button





Contact variants: Contacts

	TGM-1Ö x	TGM-2Ö x
Emergency-stop push-button	BU 7-1 6 PK	GN 4 PK 5 YE 6 BK 7
Plug-in configuration (view from plug side)	BN 2 WH 1 GN 3 BU 7 YE 4 GY 5	BN 2 WH 1 GN 3 BU 7 YE 4 PK 6

Contact variants: Contacts

	TGM-W GR 1Ö x	TGM-W GR 2Ö x
Emergency-stop push-button	BU 7 -	GN 4 PK 5 YE 6 BK 7
LEDs	GY 5 + + GN 3 RD - GN - YE 4	BU 2 + + WH 3 RD + GN
Enabling push-button	BN 2 → 8 RD	GY 8 → L RD 9 VT 10 ← RD 9
Plug-in configuration (view from plug side)	RD 8 BN 2 WH 1 GN 3 BU 7 YE 4 PK 6	BN 1 RD 9 GY 8 VT 10 RD/BU 12 BU 2 RD/BU 12 BU 2 RD/BU 12 BK 7 WH 3 YE 6 GN 4 GY/PK 11

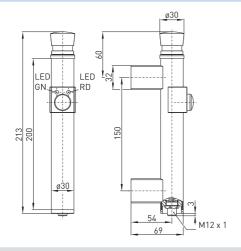
- Aluminium, black anodised
- Emergency-stop push-button per EN 418: TGM-W GR 1Ö x 1-channel ⊖
- TGM-W GR 2Ö x 2-channel ⊖
- Green and red LED - Blue enabling push-button: single break change-over
- Protection class IP 67
- TGM-W GR 1Ö x: with plug-in connector M12 x 1, 8-poles TGM-W GR 2Ö x: with plug-in connector M12 x 1, 12-poles
- Different door handle available on request

Features/options

- Stainless steel V2A
- Door handle without electrical function
- Application on double doors
- Length: 213 mm
- Different door handle available on request
- Order No. 97900908

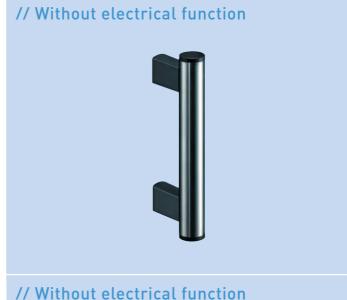


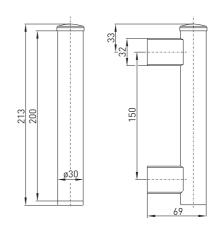
// E-stop push-button, 1 push-button



Contact variants: Contacts

	TGM-W GR 1Ö x	TGM-W GR 2Ö x
Emergency-stop push-button	BU 7→	GN 4 PK 5 YE 6 BK 7
LEDs	GY 5 + + GN 3 RD GN	BU 2 + + WH 3 RD GN BN 1
Enabling push-button	BN 2 ⊶ ↓ 8 RD WH 1 ← 8 RD	GY 8 → T VT 10 ← RD 9
Plug-in configuration (view from plug side)	PD 8 BN 2 WH 1 GN 3 BU 7 YE 4 GY 5	BN 1 RD 9 GY 8 RD/BU 12 BU 2 BU 2 BV 7 YE 6 GN 4 GY/PK 11





Contact variants: Contacts

	TGM-x-150
Without electrical function	



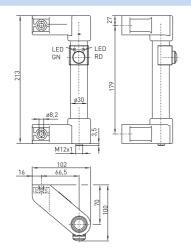
- Stainless steel V2A
- Variant for right-hinged doors
- Green and red LED
- Green enabling push-button: TGM-W GR xx: single break change-over TGM-ÖS GR xx: 1 NC/1 NO contact
- Protection class IP 67
- With plug-in connector M12 x 1, 8-poles
- Different door handle available on request

Features/options

- Stainless steel V2A
- Variant for left-hinged doors
- Green and red LED
- Blue enabling push-button: TGM-W GR xx: single break change-over TGM-ÖS GR xx: 1 NC/1 NO contact
- Protection class IP 67
- With plug-in connector M12 x 1, 8-poles
- Different door handle available on request



// Mounting left side, 1 push-button

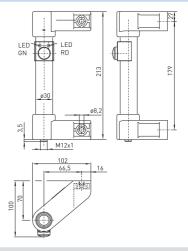


Contact variants: Contacts

	TGM-W GR xx	TG-ÖS GR xx
LEDs	GY 5 + + GN 3 RD - GN - YE 4	GY 5 + + GN 3 RD YE 4
Enabling push-button	BN 2 → T → 8 RD WH 1 ← → 8 RD	WH1→ 7 BU BN 2→ 8 RD
Plug-in configuration (view from plug side)	BN 2 WH 1 GN 3 BU 7 YE 4 GY 5	BN 2 WH 1 GN 3 BU 7 YE 4 GY 5

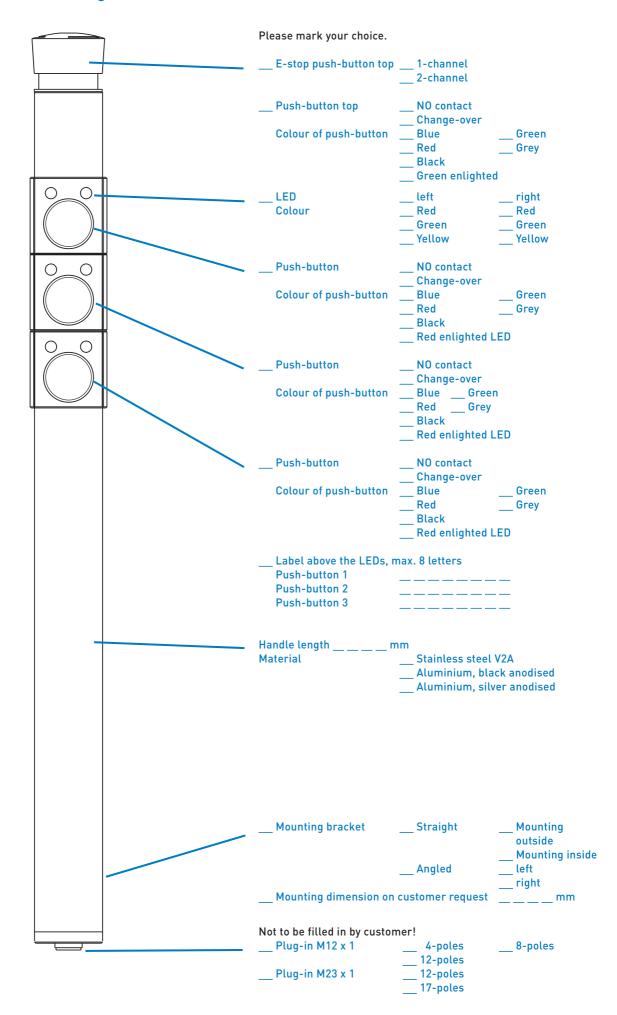


// Mounting right side, 1 push-button



Contact variants: Contacts

	TGM-W GR xx	TG-ÖS GR xx
LEDs	GY 5 + + GN 3 RD + GN	GY 5 + + GN 3 RD + GN -YE 4
Enabling push-button	BN 2 THE 8 RD	WH1→ 7 BU BN 2→ 8 RD
Plug-in configuration (view from plug side)	BN 2 WH 1 GN 3 BU 7 YE 4 GY 5	RD 8 BN 2 WH 1 GN 3 BU 7 YE 4 GY 5



- Coupling for plug-in connector M 12 x 1
- With prewired cable, different length available
- Angled or straight coupling available
- Ordering unit: 1 piece

- Coupling for plug-in connector M 23 x 1, 12-poles
- To be wired, soldering connection
- Art.-Nr. 01.36.2200
- With prewired cable available on request
- Ordering unit: 1 piece





Ordering	dotaile
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Ordering details

Coupling M 23 x 1, 12-poles

01.36.2200

Appendix // Wiring example

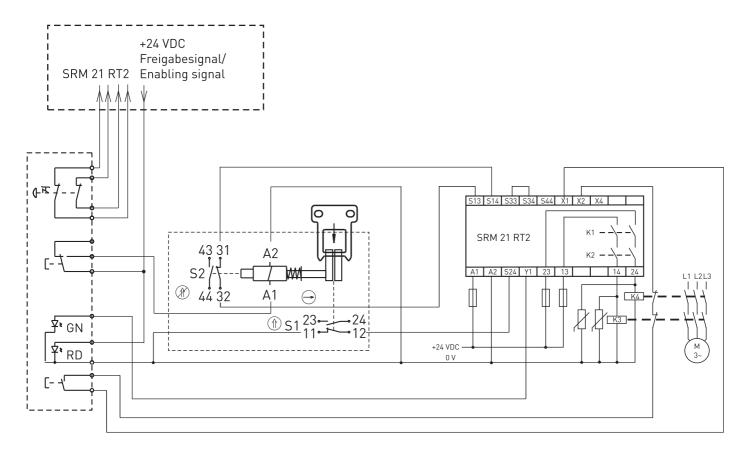
Features/options

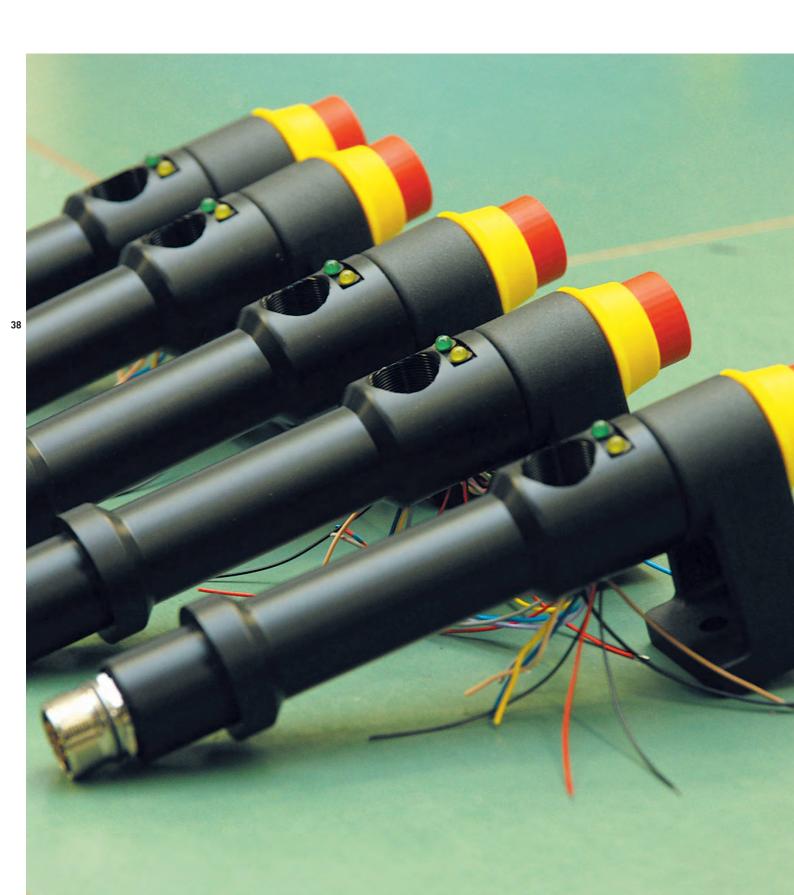
- In combination with safety relay module SRM 21 RT2 and solenoid interlock STM 295
- Integrated emergency-stop push-button
- Enabling push-button: Unlocking of door by providing power to solenoid of solenoid interlock STM 295
- Green LED: lights up with closed and locked door;
 red LED: lights up with providing power for unlocking of door
- Start push-button: Machine start

Legend

- ego positive break NC contact
- ① actuated
- not actuated

// Door handle switch for unlocking of a solenoid interlock





LEGEND

positive break NC contact

U_c Rated actuating voltage

U_e Rated operating voltage

C € Directive-compliant, see Declaration of Conformity

Colour code designation to DIN IEC 757

BK black BN brown BU blue GN green GY grey 0G orange PΚ pink RDred TQ turquoise VI violet WH white YΕ yellow

steute develops and manufactures safe switchgear for demanding and critical application. Besides a comprehensive standard range of products for »Wireless, Automation, Extreme and Meditec« applications, we also and increasingly develop customised switchgear for extreme conditions in all four business fields. Some examples: emergency pull-wire

switches for the mining industry, position switches for industrial automation and control panels for laser surgery. Our head office is in Löhne, Westphalia, Germany; worldwide sales are conducted through steute's subsidiaries and trading partners.

steute
Schaltgeräte GmbH & Co. KG
Brückenstraße 91
32584 Löhne, Germany
Phone +49 (o) 5731 745-0
Fax +49 (o) 5731 745-200
info@steute.com
www.steute.com