



PIT gb

PILZ
THE SPIRIT OF SAFETY

► Control and signal devices

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SD means Secure Digital

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Introduction

Validity of documentation

This documentation is valid for the product PIT gb. It is valid until new documentation is published.

This operating manual explains the function and operation, describes the installation and provides guidelines on how to connect the product.

Using the documentation

This document is intended for instruction. Only install and commission the product if you have read and understood this document. The document should be retained for future reference.

Definition of symbols

Information that is particularly important is identified as follows:



DANGER!

This warning must be heeded! It warns of a hazardous situation that poses an immediate threat of serious injury and death and indicates preventive measures that can be taken.



WARNING!

This warning must be heeded! It warns of a hazardous situation that could lead to serious injury and death and indicates preventive measures that can be taken.



CAUTION!

This refers to a hazard that can lead to a less serious or minor injury plus material damage, and also provides information on preventive measures that can be taken.



NOTICE

This describes a situation in which the product or devices could be damaged and also provides information on preventive measures that can be taken. It also highlights areas within the text that are of particular importance.

**INFORMATION**

This gives advice on applications and provides information on special features.

Overview

Unit features

- ▶ Slimline design
- ▶ Housing with 12-pin M12 male connector
- ▶ Control elements can be replaced with a new control element with the same design in the event of repair
- ▶ Labelling option for individual marking of the control elements
- ▶ Control elements finally wired and installed
- ▶ Can be installed in 16 different directions (see [Assembly positions](#) [ 12])
- ▶ Coloured caps for marking the function of the control elements (see [Order reference: Accessories](#) [ 25])

Scope of supply

- ▶ PIT gb
- ▶ 2 washers M5
- ▶ Coloured caps (set), sorted by colour

Safety

Intended use

The unit PIT gb is intended for use in safety circuits in accordance with IEC/EN 60947-5-5, EN ISO 13850. Before using the device, a safety assessment of the overall system must be performed in accordance with the Machinery Directive.

The PIT gb must be used in combination with a suitable evaluation device (see [Connection to evaluation device](#)).

The following is deemed improper use in particular:

- ▶ Any component, technical or electrical modification to the product
- ▶ Use of the product outside the areas described in this manual
- ▶ Use of the product outside the technical details (see chapter entitled "[Technical details](#)" [ 21]).

Foreseeable misuse

- ▶ Use of the PIT gb under corrosive environmental conditions (cooling emulsions, surface treatment, gases, ...)
Please contact Pilz.

- ▶ Use of a different object than the intended key when using the key-operated pushbutton or the key switch.
- ▶ Blocking of the key-operated pushbutton or the key switch with a foreign body.

Safety regulations

Use of qualified personnel

The products may only be assembled, installed, programmed, commissioned, operated, maintained and decommissioned by competent persons.

A competent person is a qualified and knowledgeable person who, because of their training, experience and current professional activity, has the specialist knowledge required. To be able to inspect, assess and operate devices, systems and machines, the person has to be informed of the state of the art and the applicable national, European and international laws, directives and standards.

It is the company's responsibility only to employ personnel who

- ▶ Are familiar with the basic regulations concerning health and safety / accident prevention,
- ▶ Have read and understood the information provided in the section entitled Safety
- ▶ Have a good knowledge of the generic and specialist standards applicable to the specific application.

Warranty and liability

All claims to warranty and liability will be rendered invalid if

- ▶ The product was used contrary to the purpose for which it is intended,
- ▶ Damage can be attributed to not having followed the guidelines in the manual,
- ▶ Operating personnel are not suitably qualified,
- ▶ Any type of modification has been made (e.g. exchanging components on the PCB boards, soldering work etc.).

Disposal

- ▶ When decommissioning, please comply with local regulations regarding the disposal of electronic devices (e.g. Electrical and Electronic Equipment Act).

For your safety**WARNING!**

Loss of safety function due to manipulation of the control elements

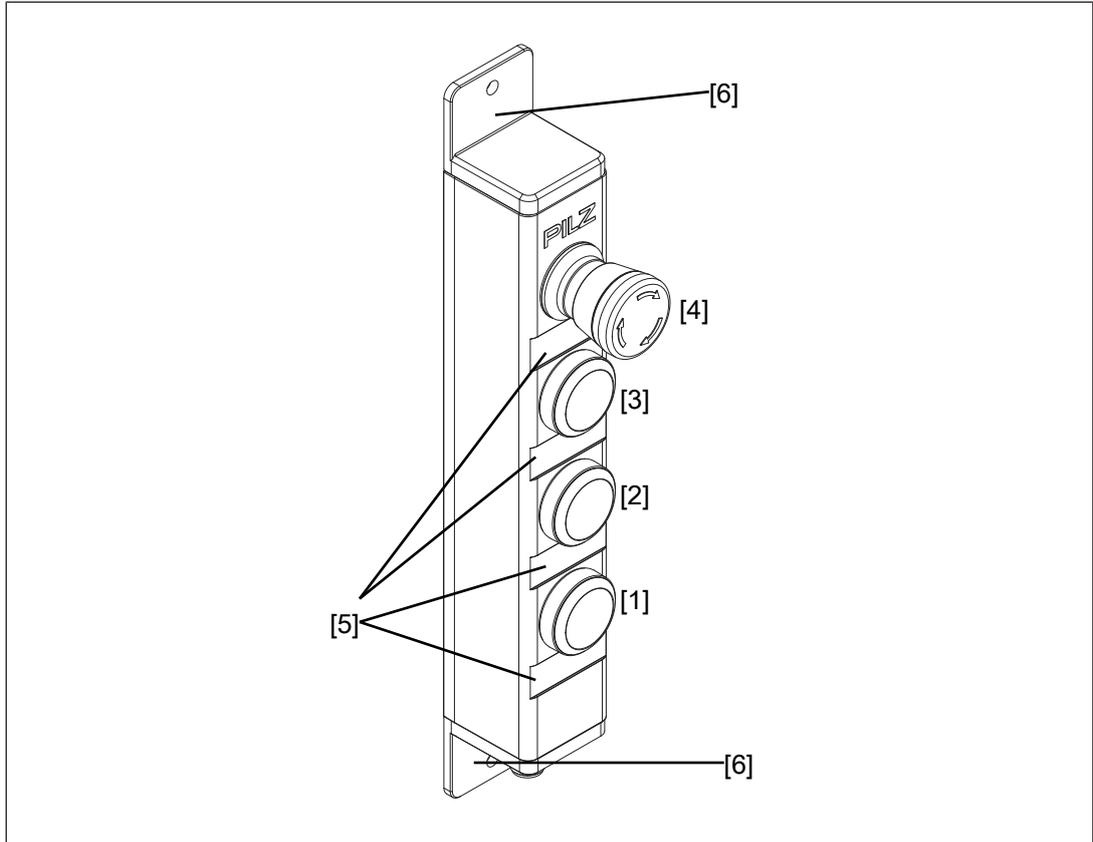
Manipulation of the control elements may lead to serious injury and death.

- You should prevent any possibility of the control elements being manipulated through the use of a spare control element.
- Keep the spare control element in a safe place and protect it from unauthorised access.
- If spare control elements are used, these must be installed as described under [Exchange of control elements](#) [ 16].
- If the original control elements are replaced with spare control elements, the original control elements must be destroyed before disposal.
- The spare control element must have the same design as the defective control element originally installed.

Function description

Device types

The PIT gb provides an E-STOP pushbutton and three additional control elements to control the functions of an overall plant or machine.



Legend

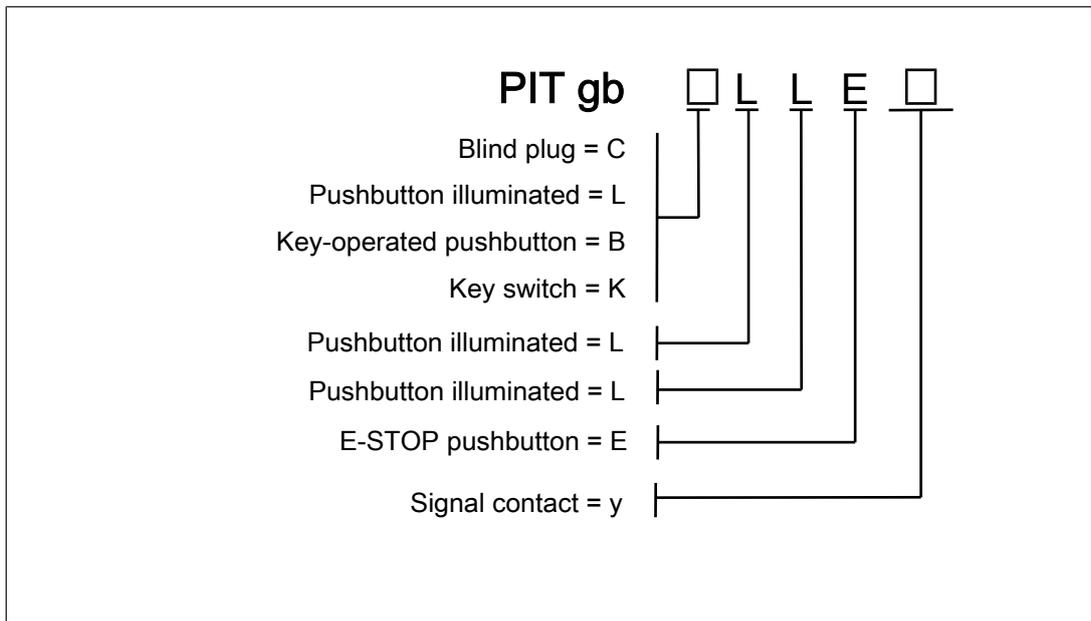
- [1] S1 = pushbutton 1, illuminated/key-operated pushbutton/key switch or blind plug
- [2] S2 = pushbutton 2, illuminated
- [3] S3 = pushbutton 3, illuminated
- [4] S4 = E-STOP pushbutton
- [5] Individual labelling option (width: 35 mm, height: 13 mm)
- [6] Rotatable mounting bracket

The following control elements are available:

Control element	Illustration	PIT gb			
		LLLE	CLLE y	BLLE y	KLLE
Key switch	[1]				1
Key-operated pushbutton	[1]			1	
Pushbutton, illuminated	[3], [2], [1]	3	2	2	2
Blind plug			1		

Control element	Illustration	PIT gb			
		LLLE	CLLE y	BLLE y	KLLE
E-STOP					
▶ without signal contact	[4]	1			1
▶ with signal contact	[4]		1	1	

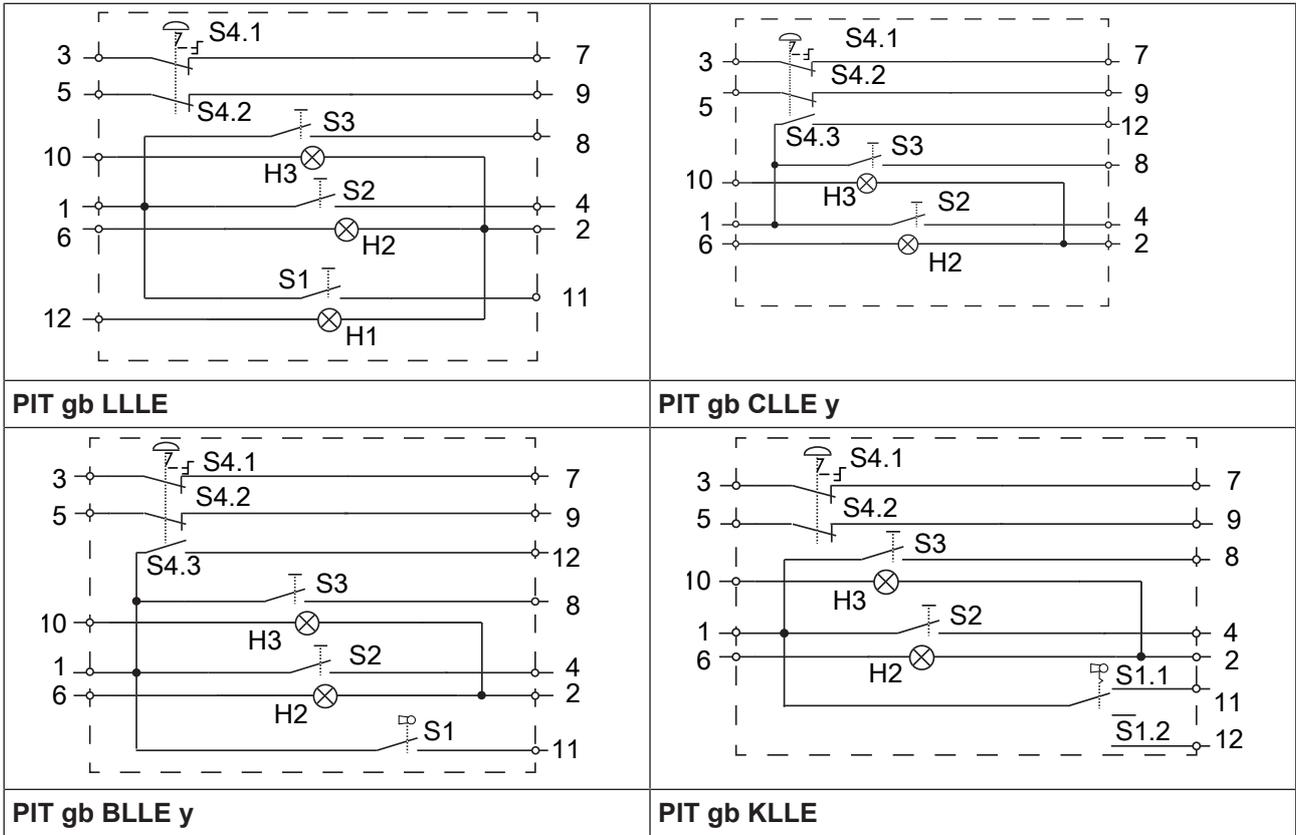
Type code



- ▶ Pushbutton
 - The pushbutton is used to switch a signal and as the status display.
 - The pushbutton lights up if the corresponding input is connected.
- ▶ Key switch
 - The key switch is used to switch two signals and secure this switching through removal of the key.
 - Three locking positions (90° to the left, start position, 90° to the right)
 - The key can be removed in all three positions.
- ▶ Key-operated pushbutton
 - The key-operated pushbutton is used to switch a signal and secure this switching through removal of the key.
 - The key can be removed in the start position.
- ▶ E-STOP pushbutton

The E-STOP pushbutton is used to shut down plant and machine sections in order to reduce or avert imminent or existing hazards to persons and damage to machinery or materials.

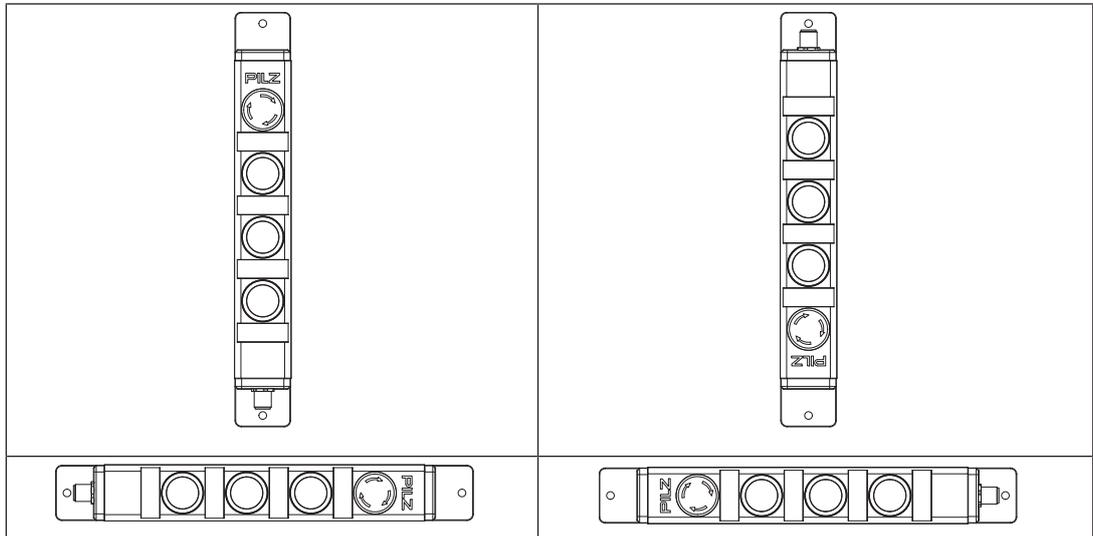
Block diagrams



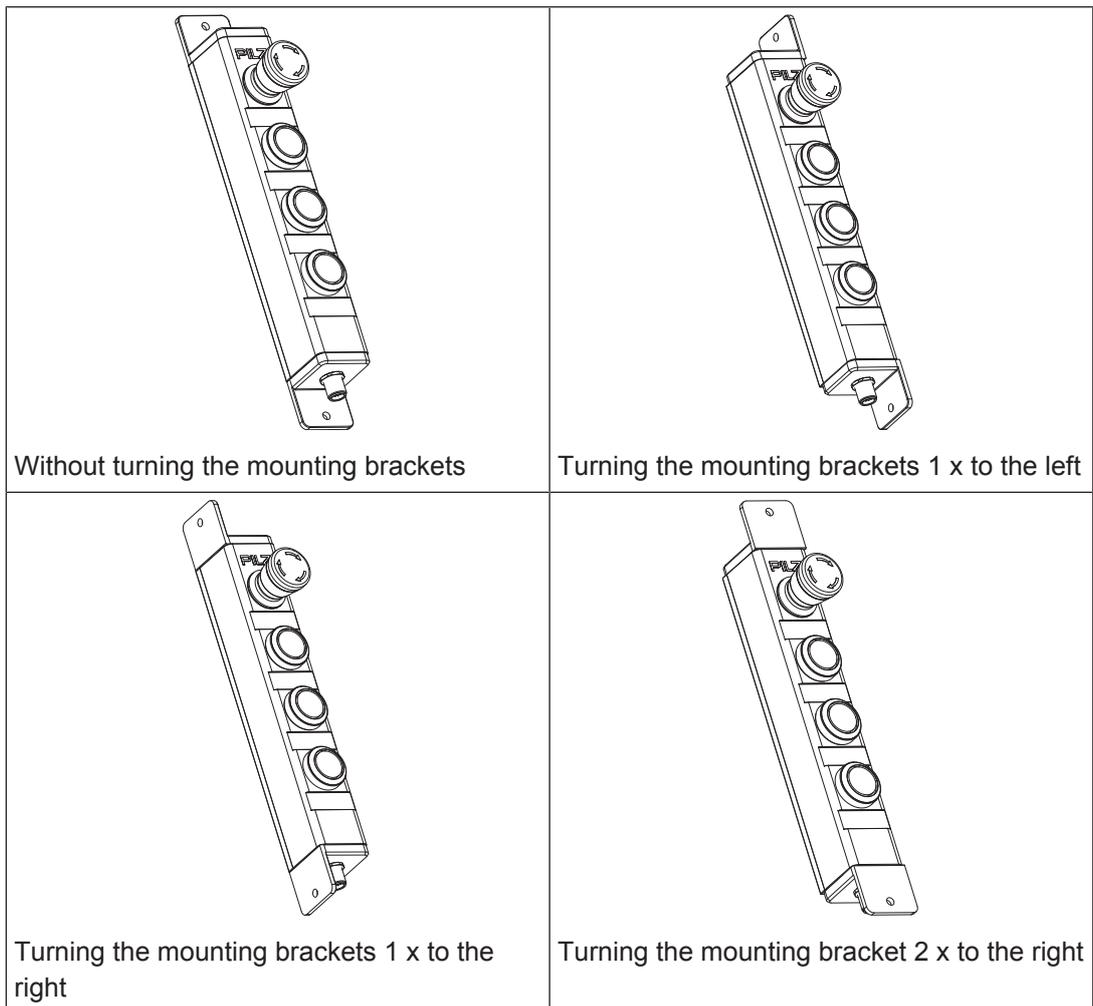
PIN	PIT gb LLLLE	PIT gb CLLE y	PIT gb BLLE y	PIT gb KLLLE
1	+24 V UB	+24 V UB	+24 V UB	+24 V UB
2	0 V UB	0 V UB	0 V UB	0 V UB
3	E-STOP channel 1	E-STOP channel 1	E-STOP channel 1	E-STOP channel 1
7	E-STOP channel 1	E-STOP channel 1	E-STOP channel 1	E-STOP channel 1
5	E-STOP channel 2	E-STOP channel 2	E-STOP channel 2	E-STOP channel 2
9	E-STOP channel 2	E-STOP channel 2	E-STOP channel 2	E-STOP channel 2
8	Pushbutton 3	Pushbutton 3	Pushbutton 3	Pushbutton 3
10	LED pushbutton 3 (H3)	LED pushbutton 3 (H3)	LED pushbutton 3 (H3)	LED pushbutton 3 (H3)
4	Pushbutton 2	Pushbutton 2	Pushbutton 2	Pushbutton 2
6	LED pushbutton 2 (H2)	LED pushbutton 2 (H2)	LED pushbutton 2 (H2)	LED pushbutton 2 (H2)
11	Pushbutton 1	Not connected	Key-operated pushbutton	Key switch channel 1 (key turned 90° to the right)
12	LED pushbutton 1 (H1)	Signal contact	Signal contact	Key switch channel 2 (key turned 90° to the left)

Assembly positions

Possible assembly positions for the PIT gb:



The mounting brackets with which the PIT gb is fastened to the mounting surface can be turned before assembly PIT gb (see figures).



Coloured caps

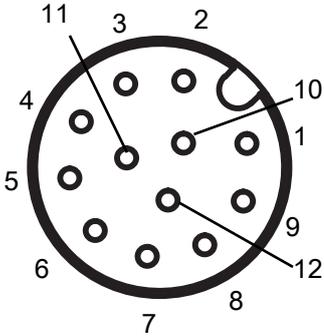
- ▶ The control elements can be marked with coloured caps according to the function of the control elements (see [Order reference: Accessories](#) [📖 25])

Wiring

Please note:

- ▶ Information given in the [Technical details](#) [📖 21] must be followed.
- ▶ The power supply must meet the regulations for extra low voltages with protective separation (SELV, PELV) in accordance with EN 60204-1.
- ▶ Ensure the wiring and EMC requirements of EN 60204-1 are met.
- ▶ To connect the PIT gb to the evaluation devices, use a 12-pin cable with an A-coded M12 female connector (see [Order reference: Accessories](#) [📖 26]).

Terminal assignment connectors

 <p>12-pin M12 male connector</p>	PIN	Wire colour
	1	Brown
	2	Blue
	3	White
	4	Green
	5	Pink
	6	Yellow
	7	Black
	8	Grey
	9	Red
	10	Purple
	11	Grey-pink
12	Red-blue	



NOTICE

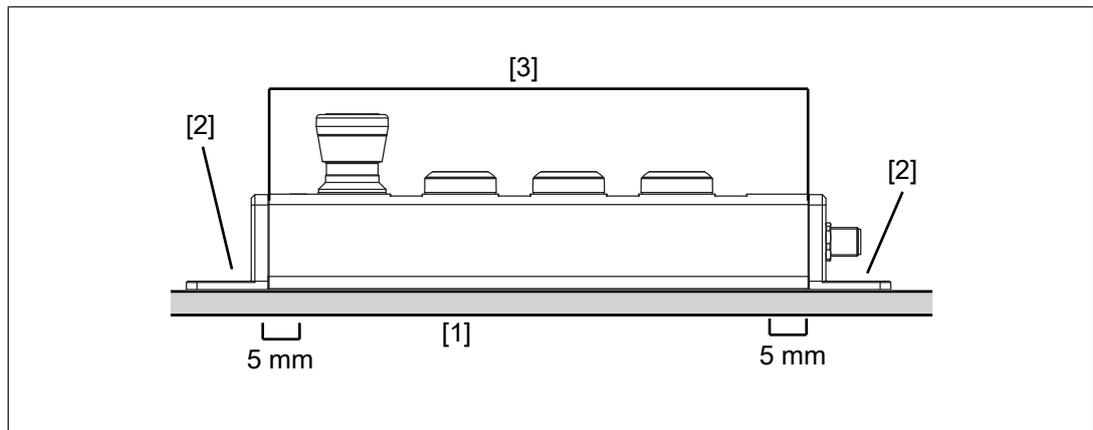
The colour marking for the connection lead only applies for the cable that Pilz supplies as an accessory

Installation

Installation of device

Please note:

- ▶ The mounting surface must have a max. unevenness of 0.5 mm.
- ▶ The housing of the PIT gb must make contact with the mounting surface over at least 5 mm on both ends (see figure).



Legend

- [1] Mounting surface
- [2] Mounting bracket
- [3] Housing

- ▶ To fasten the PIT gb, use M5 screws and the provided washers M5.
- ▶ Torque setting: Please note the information provided under [Technical details](#) [21].

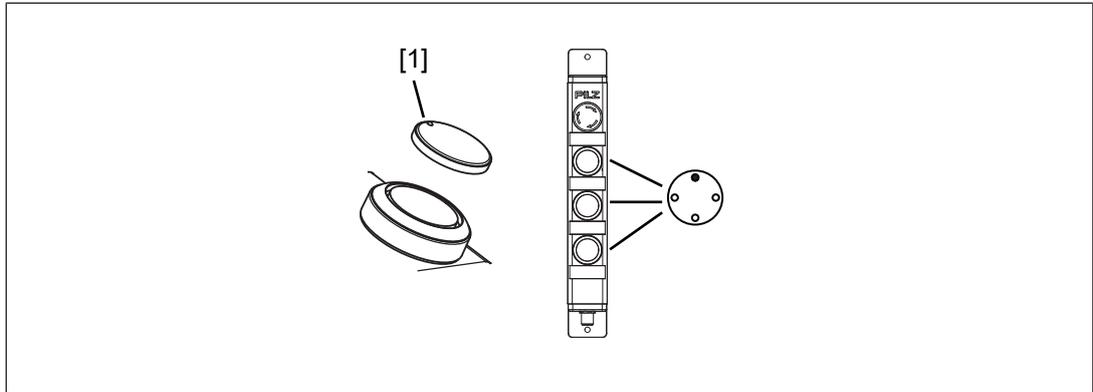
Procedure:

1. Provide the mounting surface with drill holes for fastening the PIT gb (see [Dimensions](#) [20]).
2. Turn the housing of the PIT gb in the bracket to the correct position for installation.
3. Fasten the PIT gb to the mounting surface and tighten the screws (incl. washers) with 4 Nm.

Attach coloured caps

Apply the coloured cap (provided) to the control element and press on the coloured cap until it noticeably engages.

Ensure that the alignment marking on the coloured cap (see figure) is aligned flush with the PIT gb or at a 90° angle to this.



Legend

[1] Alignment marking

Commissioning

Connection to evaluation device

Suitable Pilz evaluation devices for the actuation of the LED and reading out all control elements include:

- ▶ PNOZmulti
- ▶ PSSuniversal PLC

Suitable Pilz evaluation devices for the evaluation of the E-STOP:

- ▶ PNOZelog
- ▶ PNOZsigma
- ▶ PNOZ X

The correct connection to the respective evaluation device is described in the operating manual for the evaluation device. Make sure that the connection is made in accordance with the specifications in the operating manual for the selected evaluation device.

Checking the unit

Once the unit has been installed and aligned, final inspections must be carried out before it can be put into service.



INFORMATION

This inspection may only be carried out by qualified personnel.

- ▶ Always test the function with a connected evaluation device.
- ▶ Check the function of the E-STOP.
- ▶ Check the function of the other control elements.

Troubleshooting

Error	Cause	Description/measure
LED off	0 V voltage supply not present and/or no signal at corresponding input	Check the wiring of the inputs and outputs and rectify wiring errors
No output signal with control element operation	24 V voltage supply not present	Check the wiring of the inputs and outputs and rectify wiring errors
Control element damaged	External force	Exchange defective control element
Function of the unit impaired	Connection cable damaged	Check connection cable and exchange if necessary

Regular checks

Monthly check

- ▶ Perform a manual [function test](#) [ 15] of the PIT gb every month.



INFORMATION

This inspection may only be carried out by qualified personnel.

Check after modifications

Check the PIT gb each time the plant/machine is modified. Changing the PIT gb or swapping PIT gb components should also be regarded as a modification.

You **must** comply with the requirements of the applicable national regulations.

Repair and maintenance

Cleaning

Clean the unit every month with a soft cloth and a mild cleaning agent.

Exchange of control elements

Prerequisites

- ▶ The plant that is controlled by the PIT gb is not in operation and cannot be restarted without an equivalent safety device.
- ▶ The new control element has the same design as the defective control element.

Required tool

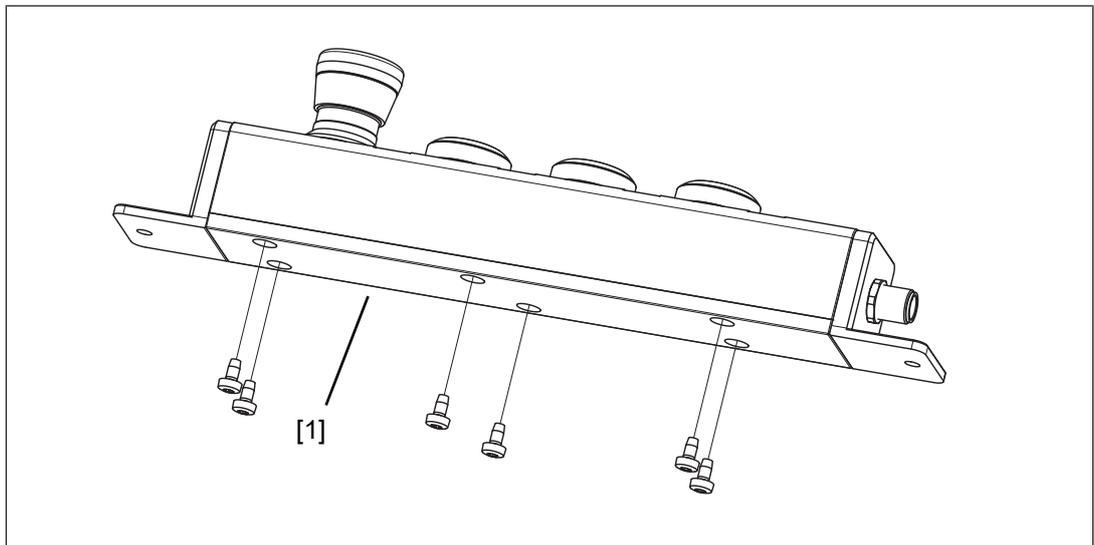
- ▶ PIT gb fixing spanner (see [Accessories](#) [📖 26]) for threaded ring of the control element



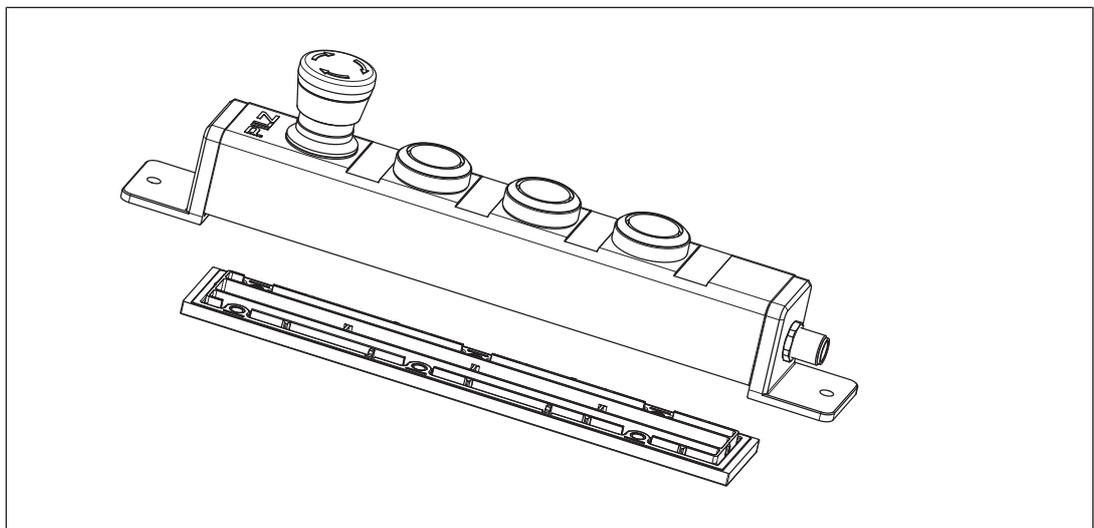
- ▶ Screwdriver for Torx Tx 20

Procedure:

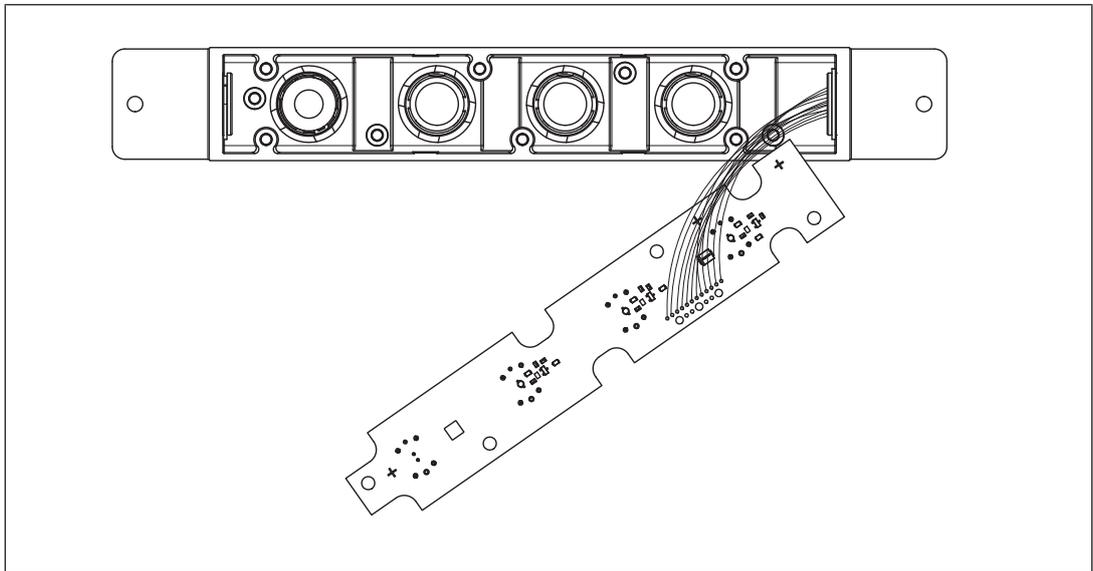
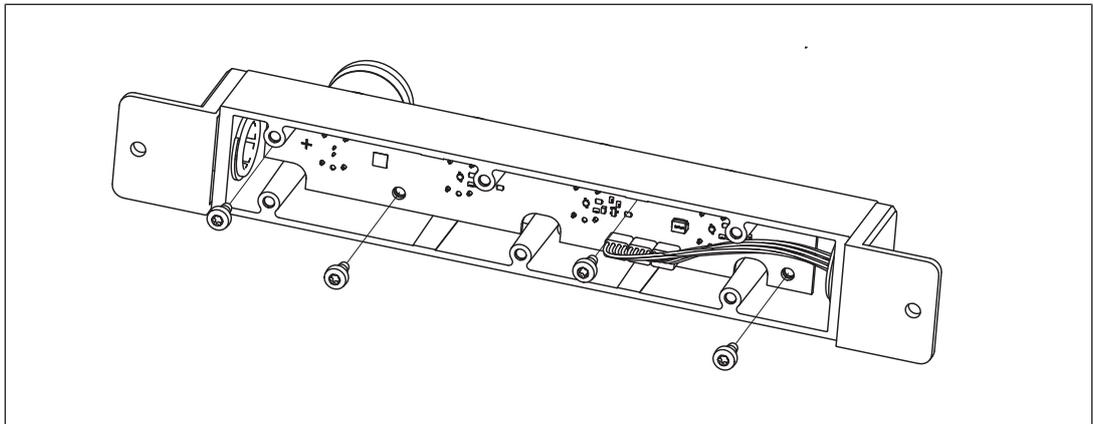
- ▶ Torque setting: Please note the information provided under [Technical details](#) [📖 21].
1. Disconnect the connection of the PIT gb to the evaluation device.
 2. Loosen the fixing screws of the PIT gb at the mounting surface.
 3. Loosen the 6 fixing screws for the terminating plate of the PIT gb and remove the terminating plate.

**Legend**

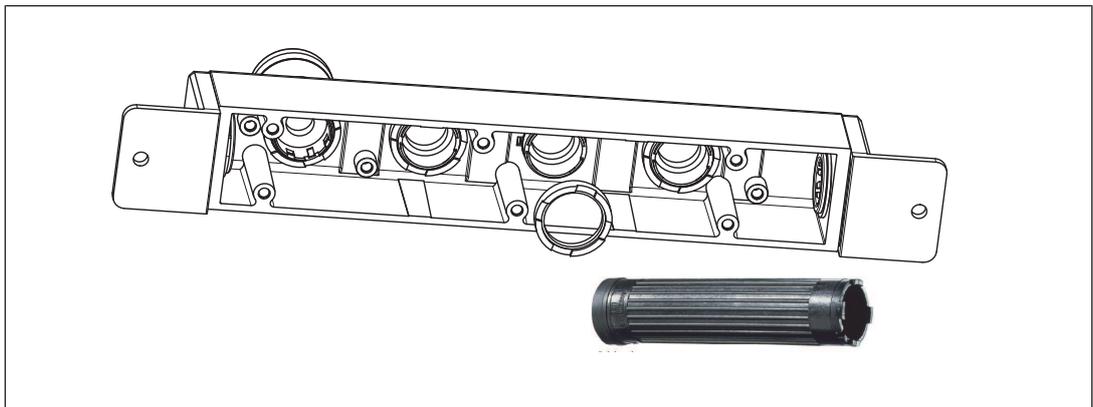
[1] Terminating plate



- Loosen the fixing screws of the printed circuit board and carefully lift off the printed circuit board (see figures).



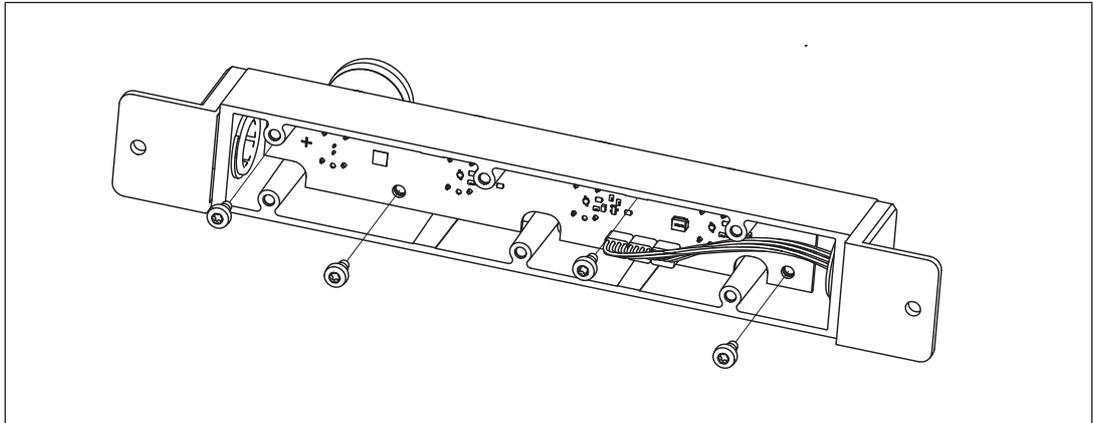
- Loosen the threaded ring of the control element that is to be exchanged and remove the threaded ring (see figure).



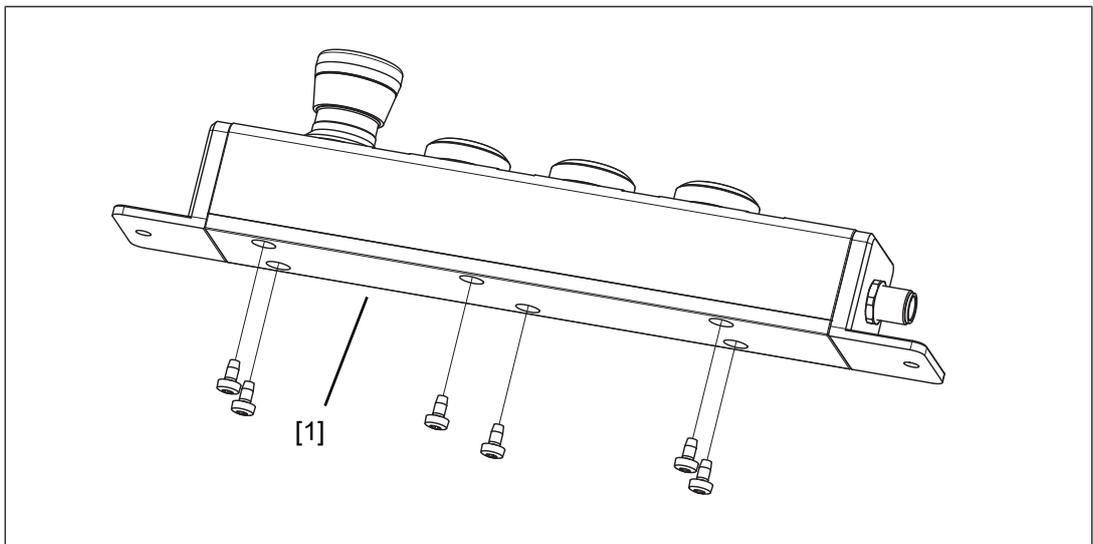
- Remove the control element on the front of the PIT gb and insert the part of the new control element.

The control element has a stud on its side to secure it against twisting. The stud must be positioned correctly when inserting the control element.

7. Screw the control element to the threaded ring again using 1,2 Nm (see figure) and apply the printed circuit board again.
 - ⇒ Make sure that the strands are not damaged, crushed or twisted here.
8. Screw the printed circuit board to the fixing screws with 1,8 Nm (see figure).



9. Screw the fixing screws for the PIT gb terminating plate in again and tighten the screws with 1,8 Nm.
 - ⇒ Make sure that the strands are not damaged, crushed or twisted here.

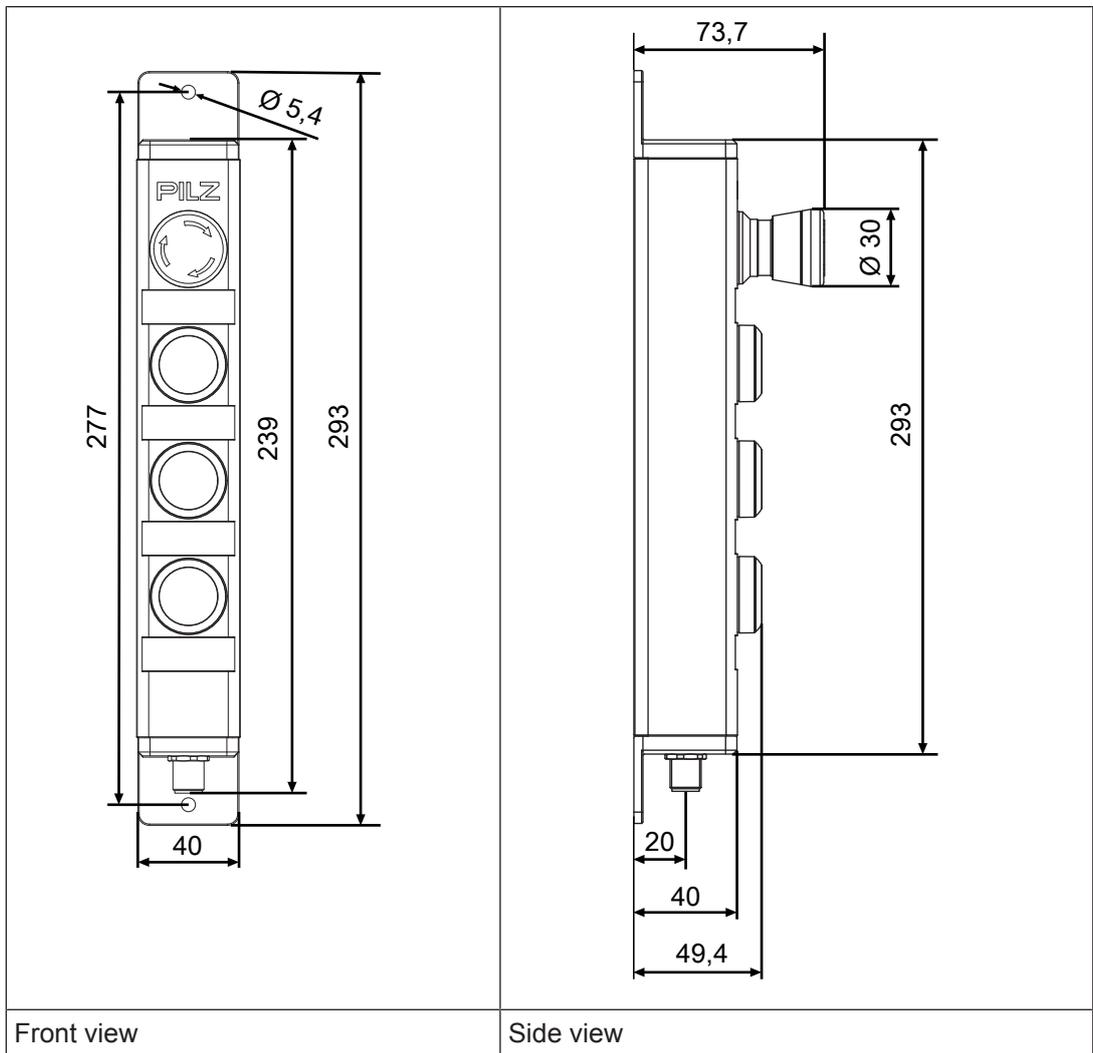


Legend

[1] Terminating plate

10. Screw the PIT gb onto the mounting surface with the fixing screws with 4 Nm.
11. Connect the PIT gb to the evaluation device.
12. Perform a manual [function test](#) [ 15] on the unit.
 - Only commission the plant that is controlled by the unit if the function test was successful.
13. Recommission the plant that is controlled by the PIT gb.

Dimensions



Technical details order no. G1000001-G1000002

General	G1000001	G1000002
Approvals	CE, UL/cUL	CE, UL/cUL
Self-monitored	No	No
Lamp		
Kind	LED	LED
Colour	white	white
Electrical data	G1000001	G1000002
Supply voltage		
Voltage	24 V	24 V
Kind	DC	DC
Voltage tolerance	-20 %/+20 %	-20 %/+20 %
Output of external power supply (DC)	12 W	12 W
Duty cycle	100 %	100 %
Min. contact current	1 mA	1 mA
E-STOP	G1000001	G1000002
Quantity	1	1
Number of N/C contacts	2	2
Number of signal contacts	–	1
E-STOP release type	Turn release	Turn release
Utilisation category		
In accordance with the standard	EN 60947-5-1	EN 60947-5-1
DC13 at	24 V	24 V
Current	0,1 A	0,1 A
Contact material	Ag	Ag
Contact material signal contact	–	Au
Mechanical life	6050 cycles	6050 cycles
Signal output		
Output voltage	–	24 V
Max. current	–	0,1 A
Pushbutton	G1000001	G1000002
Quantity	3	2
Number of N/O contacts	3	2
Utilisation category		
In accordance with the standard	EN 60947-5-1	EN 60947-5-1
DC13 at	24 V	24 V
Max. current	0,1 A	0,1 A
Mechanical life	1.000.000 cycles	1.000.000 cycles
Contact material	Ag	Ag
Environmental data	G1000001	G1000002
Ambient temperature		
Temperature range	-20 - 60 °C	-20 - 60 °C

Environmental data	G1000001	G1000002
Storage temperature		
Temperature range	-25 - 70 °C	-25 - 70 °C
Climatic suitability		
In accordance with the standard	EN 60068-2-78	EN 60068-2-78
Humidity	93 % r. h. at 40 °C	93 % r. h. at 40 °C
Vibration		
In accordance with the standard	EN 60947-5-2	EN 60947-5-2
Frequency	10 - 55 Hz	10 - 55 Hz
Amplitude	1 mm	1 mm
Shock stress		
In accordance with the standard	EN 60947-5-2	EN 60947-5-2
Acceleration	30g	30g
Duration	11 ms	11 ms
Airgap creepage		
In accordance with the standard	EN 60947-1	EN 60947-1
Overvoltage category	III	III
Pollution degree	3	3
Protection type		
Housing	IP65	IP65
Mechanical data	G1000001	G1000002
Mounting position	Any	Any
Connection type	M12, 12-pin male connector	M12, 12-pin male connector
Material		
Housing	Zn	Zn
Fixing screws torque settings	4 Nm	4 Nm
Torque setting terminating plate	1,8 Nm	1,8 Nm
Torque setting circuit board	1,8 Nm	1,8 Nm
Torque setting control element	1,2 Nm	1,2 Nm
Dimensions		
Height	293 mm	293 mm
Width	40 mm	40 mm
Depth	40 mm	40 mm
Weight	800 g	800 g

Technical details order no. G1000003-G1000004

General	G1000003	G1000004
Approvals	CE, UL/cUL	CE, UL/cUL
Self-monitored	No	No
Lamp		
Kind	LED	LED
Colour	white	white

Electrical data	G1000003	G1000004
Supply voltage		
Voltage	24 V	24 V
Kind	DC	DC
Voltage tolerance	-20 %/+20 %	-20 %/+20 %
Output of external power supply (DC)	12 W	12 W
Duty cycle	100 %	100 %
Min. contact current	1 mA	1 mA
E-STOP	G1000003	G1000004
Quantity	1	1
Number of N/C contacts	2	2
Number of signal contacts	1	–
E-STOP release type	Turn release	Turn release
Utilisation category		
In accordance with the standard	EN 60947-5-1	EN 60947-5-1
DC13 at	24 V	24 V
Current	0,1 A	0,1 A
Contact material	Ag	Ag
Contact material signal contact	Au	–
Mechanical life	6050 cycles	6050 cycles
Signal output		
Output voltage	24 V	–
Max. current	0,1 A	–
Pushbutton	G1000003	G1000004
Quantity	2	2
Number of N/O contacts	2	2
Utilisation category		
In accordance with the standard	EN 60947-5-1	EN 60947-5-1
DC13 at	24 V	24 V
Max. current	0,1 A	0,1 A
Mechanical life	1.000.000 cycles	1.000.000 cycles
Contact material	Ag	Ag
Key switch	G1000003	G1000004
Quantity	1	–
Number of N/O contacts	1	–
Utilisation category		
In accordance with the standard	EN 60947-5-1	–
DC13 at	24 V	–
Max. current	0,1 A	–
Mechanical life	30.000 cycles	–
Service life mechanical, key not removed	300.000 cycles	–
Contact material	Ag	–

Key switch	G1000003	G1000004
Quantity	–	1
Number of N/O contacts	–	2
Utilisation category		
In accordance with the standard	–	EN 60947-5-1
DC13 at	–	24 V
Max. current	–	0,1 A
Mechanical life	–	30.000 cycles
Service life mechanical, key not removed	–	300.000 cycles
Contact material	–	Ag
Environmental data	G1000003	G1000004
Ambient temperature		
Temperature range	-20 - 60 °C	-20 - 60 °C
Storage temperature		
Temperature range	-25 - 70 °C	-25 - 70 °C
Climatic suitability		
In accordance with the standard	EN 60068-2-78	EN 60068-2-78
Humidity	93 % r. h. at 40 °C	93 % r. h. at 40 °C
Vibration		
In accordance with the standard	EN 60947-5-2	EN 60947-5-2
Frequency	10 - 55 Hz	10 - 55 Hz
Amplitude	1 mm	1 mm
Shock stress		
In accordance with the standard	EN 60947-5-2	EN 60947-5-2
Acceleration	30g	30g
Duration	11 ms	11 ms
Airgap creepage		
In accordance with the standard	EN 60947-1	EN 60947-1
Overvoltage category	III	III
Pollution degree	3	3
Protection type		
Housing	IP65	IP65
Mechanical data	G1000003	G1000004
Mounting position	Any	Any
Connection type	M12, 12-pin male connector	M12, 12-pin male connector
Material		
Housing	Zn	Zn
Fixing screws torque settings	4 Nm	4 Nm
Torque setting terminating plate	1,8 Nm	1,8 Nm
Torque setting circuit board	1,8 Nm	1,8 Nm
Torque setting control element	1,2 Nm	1,2 Nm
Dimensions		
Height	293 mm	293 mm
Width	40 mm	40 mm
Depth	40 mm	40 mm

Mechanical data	G1000003	G1000004
Weight	800 g	800 g

Safety characteristic data



NOTICE

You must comply with the safety characteristic data in order to achieve the required safety level for your plant/machine.

Safety characteristic data	
B10d in accordance with EN ISO 13849-1:2015 and EN 62061	130.000

Order reference

Product

Product type	Features		Order no.
PIT gb LLE	Housing with three illuminated push-buttons, one E-STOP and coloured caps	M12, 12-pin male connector	G1 000 001
PIT gb CLLE y	Housing with blind plug, two illuminated pushbuttons, one E-STOP with signal contact and coloured caps	M12, 12-pin male connector	G1 000 002
PIT gb BLLE y	Housing with key-operated pushbutton, two illuminated pushbuttons, one E-STOP with signal contact and coloured caps	M12, 12-pin male connector	G1 000 003
PIT gb KLE	Housing with key switch, two illuminated pushbuttons, one E-STOP and coloured caps	M12, 12-pin male connector	G1 000 004

Spare part

Product type	Features	Order no.
PIT gb es1	E-STOP without signal contact	G1 000 005
PIT gb es2	E-STOP with signal contact	G1 000 011
PIT gb push button	Pushbutton, illuminated	G1 000 006
PIT gb key button	Key-operated pushbutton	G1 000 007
PIT gb key switch	Key switch with 2 locked positions	G1 000 008
PIT gb blind cover	Blind plug	G1 000 010

Accessories

Product type	Features	Order no.
PIT gb fixing spanner	Fixing spanner for threaded rings	G1 000 012
PIT gb color covers	Coloured caps (set), sorted by colour	G1 000 009

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
PSEN op cable axial M12 12-pole 3m	3 m	M12, 12-pin female connector, straight			631 080
PSEN op cable axial M12 12-pole 5m	5 m	M12, 12-pin female connector, straight			631 081
PSEN op cable axial M12 12-pole 10m	10 m	M12, 12-pin female connector, straight			631 082
PSEN op cable axial M12 12-pole 20m	20 m	M12, 12-pin female connector, straight			631 083
PSEN op cable axial M12 12-pole 30m	30 m	M12, 12-pin female connector, straight			631 084
PSEN op cable axial M12 12-pole 50m	50 m	M12, 12-pin female connector, straight			631 085

EC declaration of conformity

This product/these products meet the requirements of the directive 2006/42/EC for machinery of the European Parliament and of the Council. The complete EC Declaration of Conformity is available on the Internet at www.pilz.com/downloads.

Authorised representative: Norbert Fröhlich, Pilz GmbH & Co. KG, Felix-Wankel-Str. 2, 73760 Ostfildern, Germany

► Support

Technical support is available from Pilz round the clock.

Americas

Brazil

+55 11 97569-2804

Canada

+1 888-315-PILZ (315-7459)

Mexico

+52 55 5572 1300

USA (toll-free)

+1 877-PILZUSA (745-9872)

Asia

China

+86 21 60880878-216

Japan

+81 45 471-2281

South Korea

+82 31 450 0680

Australia

+61 3 95600621

Europe

Austria

+43 1 7986263-0

Belgium, Luxembourg

+32 9 3217575

France

+33 3 88104000

Germany

+49 711 3409-444

Ireland

+353 21 4804983

Italy, Malta

+39 0362 1826711

Scandinavia

+45 74436332

Spain

+34 938497433

Switzerland

+41 62 88979-30

The Netherlands

+31 347 320477

Turkey

+90 216 5775552

United Kingdom

+44 1536 462203

You can reach our international hotline on:

+49 711 3409-444

support@pilz.com

Pilz develops environmentally-friendly products using ecological materials and energy-saving technologies. Offices and production facilities are ecologically designed, environmentally-aware and energy-saving. So Pilz offers sustainability, plus the security of using energy-efficient products and environmentally-friendly solutions.

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saving by Pilz



Pilz GmbH & Co. KG
Felix-Wankel-Straße 2
73760 Ostfildern, Germany
Tel.: +49 711 3409-0
Fax: +49 711 3409-133
info@pilz.com
www.pilz.com

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