

PIT js2/PIT js2 bc



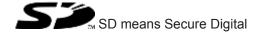
► Control and signal devices

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Introduction

Validity of documentation

This documentation is valid for the product PIT js2/PIT js2 bc. 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.

This documentation is valid for PIT js2/PIT js2 bc from the date of manufacture 2019-03.

Retaining the documentation

This documentation is intended for instruction and 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 fea-

For your safety

- ▶ The unit may only be installed and commissioned by personnel who are familiar with both these instructions and the current regulations for health and safety at work and accident prevention. Ensure VDE and local regulations are met, especially those relating to protective measures.
- Any guarantee is rendered invalid if the housing is opened or unauthorised modifications are carried out.
- ▶ Check the function of the pushbutton before commissioning for the first time and then at regular intervals (at least annually).

Intended use

The PIT js2/PIT js2 bc is a manually operated command device that can be used as an enabling device. It allows authorised personnel to monitor processes in the danger zone of automated manufacturing facilities when movable guards are open.

Depending on the result of the risk analysis, additional protective measures (e.g. reduced speed) may be required.

Use the following units as an evaluation device:

- Programmable safety system of the PSS 4000 automation system with the FS control block for two-hand control
- ▶ PNOZmulti modular safety system with the two-hand module
- ▶ Two-hand control relays
 - P2HZ X1
 - P2HZ X1P
 - P2HZ X1.10P
 - P2HZ X2
 - P2HZ X3
 - P2HZ X4P
- ▶ Safety relay PNOZelog
 - PNOZ e2.1p
- ▶ Safety relay PNOZsigma
 - PNOZ s6
 - PNOZ s6.1

Device description

The PIT js2/PIT js2 bc command device consists of a plastic housing with 3 pushbuttons and/or 2 pushbuttons and a blind plug.

Features:

- ▶ 2 pushbuttons (ACT1 and ACT2) for the two-hand function (N/C / N/O contact, respectively)
- ▶ PIT js2: 1 pushbutton (RESET) for the reset function (N/O)
- ▶ PIT js2 bc: 1 blind plug
- ▶ The contacts are connected by a coiled cable with an open end.

Function description

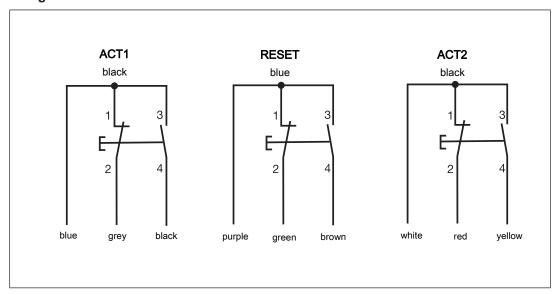
An enabling signal is generated in conjunction with a two-hand monitoring module by simultaneously pressing the ACT1 and ACT2 pushbuttons. This overrides the safety function of the movable guards. Authorised operating personnel then can enter the danger zone to monitor work processes.

Releasing one or both pushbuttons ACT1 and ACT2 will interrupt the enabling signal. A subsequent enabling signal can only be generated once both pushbuttons have been released. On PIT js2, the Reset pushbutton can additionally be incorporated into the control system to generate a subsequent enabling signal.

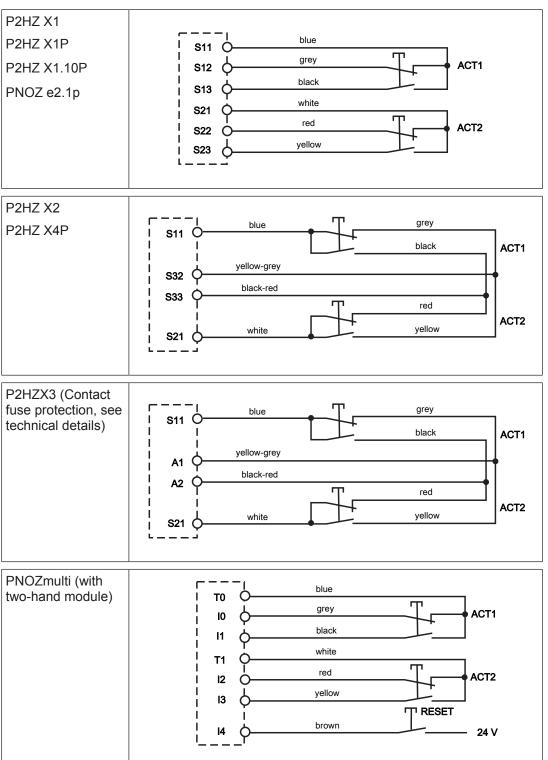
Wiring

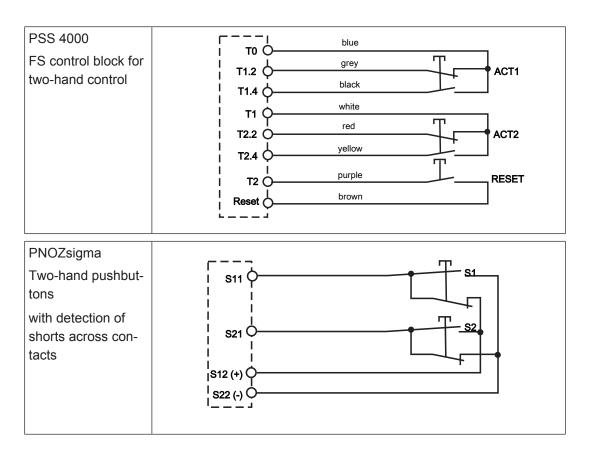
- ▶ Connect the ACT1 and ACT2 buttons to the control system in such a way that both pushbuttons must be actuated in order to generate an enabling signal.
- ▶ PIT js2: You can connect the Reset button to the control system such that, after releasing one or both pushbuttons ACT1 and ACT2, a subsequent enabling signal can only be generated once the Reset pushbutton has been actuated.

Assignment



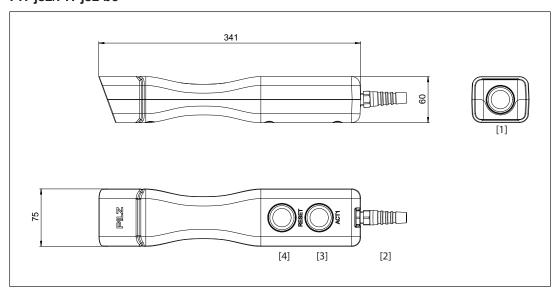
Connection to evaluation device





Dimensions in mm

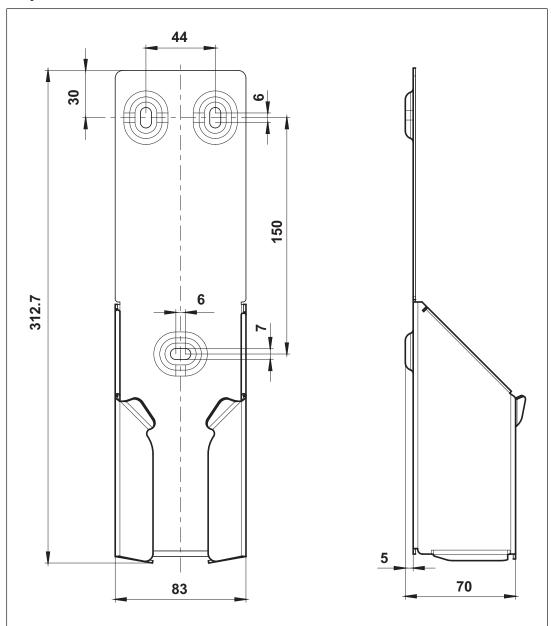
PIT js2/PIT js2 bc



Legend

- [1] Pushbutton ACT2
- [2] Cable bend protection
- [3] Pushbutton ACT1
- [4] Reset pushbutton (only with 401 100)

PIT js holder



Technical Details

General	401100	401101	
Certifications	CE	CE	
Self-monitored	No	No	
Electrical data	401100	401101	
Supply voltage			
Voltage	24 V	24 V	
Kind	AC/DC	AC/DC	
Max. switching current, safe	ty con-		
tacts	0,75 A	0,75 A	

Pushbutton	401100	401101
Quantity	3	2
Relay outputs	401100	401101
Utilisation category of safety contacts		
DC1 at	24 V	24 V
Environmental data	401100	401101
Ambient temperature		
Temperature range	-10 - 55 °C	-10 - 55 °C
Protection type		
Housing	IP65	IP65
Mechanical data	401100	401101
Cable length L1	5 m	5 m
Cable insulation material K1	PUR	PUR
Conductor cross section K1	0,14 mm ²	0,14 mm²
Material		
Housing	PC-ABS-Blend UL 94V0	PC-ABS-Blend UL 94V0
Dimensions		
Height	341 mm	341 mm
Width	75 mm	75 mm
Depth	60 mm	60 mm

Safety characteristic data

Safety characteristic data	
B10d in accordance with EN ISO 13849-1:2015 and EN 62061	20.000.000
Lambda _d /Lambda in accordance with EN 62061	0,10

Order reference

Product

Туре	Features	Order no.
PIT js2	Manually operated command device	401 100
PIT js2 bc	Manually operated command device (without Reset pushbutton)	401 101

Accessories

Bracket

Туре	Features	Order no.
PIT js holder	Wall bracket for PIT js2/PIT js2 bc	401 200

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