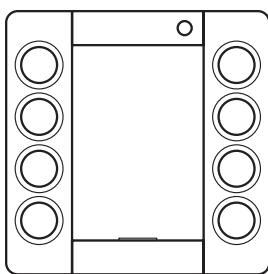


## System Design multi-function push-button, 4-gang, with IR receiver

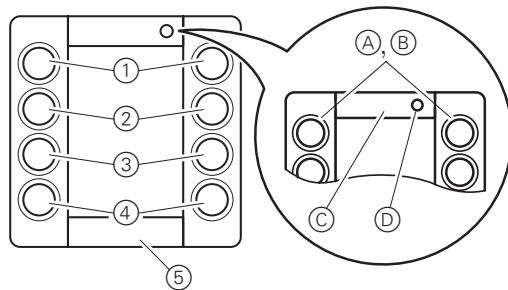


| Colour          | Article no. |
|-----------------|-------------|
| polar white     | 622819      |
| white           | 622844      |
| aluminium       | 622860      |
| vanilla         | 622882      |
| ice blue        | 622888      |
| light grey      | 622829      |
| midnight blue   | 622878      |
| dark brazil     | 622815      |
| black grey      | 622869      |
| stainless steel | 622846      |

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## 1. Function



(A) Operating display (green circles)

(B) Status display (red circles)

(C) IR eye

(D) Receiving display

(1) Upper left/right push-button pair

(3) Upper middle left/right push-button pair

(3) Lower middle left/right push-button pair

(4) Lower left/right push-button pair

(5) Auxiliary push-button

The INSTABUS 4-gang multi-function push-button is a command device for e.g. switching, dimming and blind control functions according to the "application software" loaded into the flush-mounted insert.

Depending on the application, the push-button pairs 1, 2, 3, 4 are addressed as a pair of two horizontally adjacent push-buttons or as individually programmable push-buttons. When one of the push-buttons of the pair is pressed, a data telegram for ON, BRIGHTER, UP etc. is sent while a data telegram for OFF, DARKER, DOWN etc. is sent when the other push-button is pressed. For the individually programmed push-buttons, any push-button can be assigned any function.

In addition, the multi-function push-button has an individually programmable auxiliary push-button 5, which can be assigned the functions of toggling, pulse edge, value sending and push-button illumination.

The green LED A indicates that the push-button is ready for operation. It can also be used as an orientation light.

The red LEDs B next to the two push-buttons are common for the push-button pairs. When used as individually programmable push-buttons, all the red LEDs B are programmable status displays.

The multi-function push-button is fitted with an IR receiver. A corresponding IR channel is assigned to each push-button and carries out the same function as the respective push-button. The push-button receives the IR signal via the IR eye C. The actual receipt of the signal is signalled via the receiving display D.

## 2. Installation

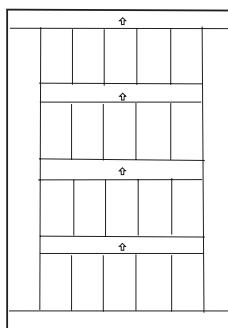
The push-button is an application module in the System Design range and is clipped onto:

- Bus coupler, flush-mounted 2 (art. no. 690299)
- Switch actuator, flush-mounted/230/10 (art. no. 627099)
- Series actuator, flush-mounted/230/6 (art. no. 627199)
- Blind actuator, flush-mounted/230/6 (art. no. 627299)

**i** The push-button must also be completed with a System Design frame.

## Labelling

### Labelling sheets



| Colour                 | Article no. |
|------------------------|-------------|
| white                  | 618944      |
| polar white/<br>silver | 618919      |

## Function

Labelling sheets are available as an accessory. They can be professionally provided with text and symbols using the Merten labelling software (art. no. 615022).

## 3. Technical Data

|                     |   |
|---------------------|---|
| Initialisation:     | Due to the limitation of the telegram rate, a telegram cannot be generated until at least 17 s after the initialisation.  |
| Display elements:   | Green LED for indicating the device is ready for operation, can be switched off via parameters<br>Red LED for status display<br>Red LED for displaying receipt of IR signal |
| Operating elements: | Four push-button pairs and an auxiliary push-button   |
| Ambient temperature |   |
| Operation:          | -5 °C to +45 °C   |
| Storage:            | -25 °C to +55 °C  |
| Transport:          | -25 °C to +70 °C  |

Max. humidity: 93 %

Connection to the flush- PEI, 10-pole plug connector mounted insert via:

## 4. Settings in the EIB Tool Software (ETS)

### Selection in the product database

|   |  |
|---|--|
| Manufacturer:   | Merten   |
| Product family:   | 1.5 Multi-function push-button                   |
| Product type:   | 1.5.02 System Design with IR                     |
| Programs in connection with the bus coupler, flush-mounted 2 (art. no. 690299): |  |
|   | Multi-function 1551/1.0                          |
|   | Multi-function 2 1552/1.0                        |
| Media type:   | Twisted Pair                                     |
| Product name:   | System Design multi-function push-button with IR |
| Order number:   | 6228xx   |

|  |  |
|--|--|
| Manufacturer:  | Merten   |
| Product family:  | 4.1 Switch actuator, 1-gang                                  |
| Product type:  | 4.1.01 Flush-mounted FM                                      |
| Programs in connection with the switch actuator, flush-mounted/230/10 (art. no. 627099): |  |
|  | Multi push-button + Switch Stairc. Log. Stat. Init. 4615/2.0 |
| Media type:  | Twisted Pair   |
| Product name:  | Switch actuator, 1-gang                                      |
| Order number:  | 627099   |

|   |  |
|---|--|
| Manufacturer:   | Merten   |
| Product family:   | 4.2 Switch actuator, 2-gang                                  |
| Product type:   | 4.2.01 Flush-mounted FM                                      |
| Programs in connection with the series actuator, flush-mounted/230/6 (art. no. 627199): |  |
|   | Multi push-button + Switch Stairc. Log. Stat. Init. 4715/2.0 |
| Media type:   | Twisted Pair   |
| Product name:   | Switch actuator, 2-gang                                      |
| Order number:   | 627199   |

|  |   |
|--|---|
| Manufacturer:  | Merten                                      |
| Product family:  | 4.5 Blind actuator                          |
| Product type:  | 4.5.05 Flush-mounted FM                     |
| Programs in connection with the blind actuator, flush-mounted/230/6 (art. no. 627299): |   |
|  | Multi-function push-button + Blind 5615/2.0 |
| Media type:  | Twisted Pair                                |

Product name: Blind actuator  
 Order number: 627299

## 5. Application overview

The following applications can be selected with the bus coupler, flush-mounted (art. no. 690099):

| Application               | Vers. | Function   |
|---------------------------|-------|--|
| Multi-function 1551/1.0   | 1     | Send 1/8 bit switching commands<br>Send 1/8 bit toggle commands<br>Send 1/8 bit pulse edge commands via 2 objects<br>Send dimming commands with parameterisable dimming steps<br>Send blind control commands or positioning values<br>Send scene commands<br>Send 8 bit values via 2 objects<br>Auxiliary push-button: Toggle<br>Auxiliary push-button: Pulse edges<br>Auxiliary push-button: Value<br>Auxiliary push-button: Push-button illumination on/off<br>Disable push-buttons<br>Status response<br>Operating display<br>IR range  |
| Multi-function 2 1552/1.0 | 1     | Send 1/8 bit switching commands<br>Send 1/8 bit toggle commands<br>Send dimming commands with parameterisable dimming steps<br>Send blind control commands or positioning values<br>Send 1 bit, 2 bit (priority control) or 1 byte pulse edge commands via 2 objects<br>Send 2 byte pulse edge commands via 1 object<br>Send scene commands<br>Auxiliary push-button: Toggle<br>Auxiliary push-button: Switching<br>Auxiliary push-button: 1 bit pulse edge, 2 bit (priority), 1 byte values<br>Auxiliary push-button: Push-button illumination on/off<br>Status response<br>Operating display<br>IR range |

The following applications can be selected with the switch actuator, flush-mounted/230/10 (art. no. 627099):

| Application  | Vers. | Function   |
|--|-------|--|
| Multi push-button + Switch Stairc. Log. Stat. Init. 4615/2.0 | 2.0   | Send 1/8 bit switching commands<br>Send 1/8 bit toggle commands<br>Send 1/8 bit pulse edge commands via 2 objects<br>Send dimming commands with parameterisable dimming steps<br>Send blind control commands or positioning values<br>Send temperature values<br>Send 8 bit values via 2 objects<br>Operating display<br>IR range<br>Disable push-buttons<br>Switching function<br>Staircase lighting function<br>AND/OR logic function<br>Blocking<br>Status response<br>Relay operation<br>Behaviour on failure of the bus voltage<br>Behaviour on application/recovery of the bus voltage |

The following applications can be selected with the series actuator, flush-mounted/230/6 (art. no. 627199):

| Application  | Vers. | Function   |
|--|-------|--|
| Multi push-button + Switch Stairc. Log. Stat. Init. 4715/2.0 | 2.0   | Send 1/8 bit switching commands<br>Send 1/8 bit toggle commands<br>Send 1/8 bit pulse edge commands via 2 objects<br>Send dimming commands with parameterisable dimming steps<br>Send blind control commands or positioning values<br>Send temperature values<br>Send 8 bit values via 2 objects<br>Operating display<br>Disable push-buttons<br>IR range<br>Switching function<br>Staircase lighting function<br>AND/OR logic function<br>Blocking<br>Status response<br>Relay operation<br>Behaviour on failure of the bus voltage<br>Behaviour on application/recovery of the bus voltage |

The following applications can be selected with the blind actuator, flush-mounted/230/6 (art. no. 627299):

| Application                                 | Vers. | Function   |
|---|-------|--|
| Multi-function push-button + Blind 5615/2.0 | 2.0   | Send 1/8 bit switching commands<br>Send 1/8 bit toggle commands<br>Send 1/8 bit pulse edge commands via 2 objects<br>Send dimming commands with parameterisable dimming steps<br>Send blind control commands or positioning values<br>Send temperature values<br>Send 8 bit values via 2 objects<br>Operating display<br>IR range<br>Disable push-buttons<br>Blind with slat adjustment<br>Roller shutter without slat adjustment<br>Safety function |