

# Datasheet

➔ **PXI4M2312-0000** [↗](#)

07/03/2025



## Equipment

| Pos. | Name   | Type                       | Nameplate | Lens    |
|------|--------|----------------------------|-----------|---------|
| 4    | FRVKOO | Emergency-stop             |           |         |
| 3    | ST     | Pushbutton                 | BSRRU     | T22RRBL |
| 2    | ST     | Pushbutton                 | BSRRU     | T22RRRT |
| 1    | SWB    | Selector Switch 3-Position |           |         |



## Technical data

|                                     |                                                          |
|-------------------------------------|----------------------------------------------------------|
| <i>IO-Link specification</i>        | V1.1 (communication), V1.1.2 (interface and system)      |
| <i>Class</i>                        | A                                                        |
| <i>Bit rate</i>                     | COM 2 / 38.4 Kbps                                        |
| <i>Data width</i>                   | 3 byte in/out                                            |
| <i>Min. cycle time</i>              | 5000 µs                                                  |
| <i>SIO mode</i>                     | no support                                               |
| <i>Vendor ID</i>                    | 0x0545                                                   |
| <i>IODD device description file</i> | Schlegel Website -> Service -> Download area -> Software |
| <i>Voltage supply</i>               | 18 V ... 30 V DC, from IO-Link master                    |
| <i>Total power consumption</i>      | ≤ 200 mA                                                 |
| <i>Connection</i>                   | 5-pole M12, A coded                                      |
| <i>Operating temperature</i>        | -25°C ... 60°C                                           |
| <i>Storage temperature</i>          | -40°C ... 80°C                                           |
| <i>Approvals</i>                    | CE, UL                                                   |

## ➔ PXA4Z - Housing

|                   |                                                                      |
|-------------------|----------------------------------------------------------------------|
| Series            | proboxx®                                                             |
| Material          | PA                                                                   |
| Color bottom part | dark grey                                                            |
| Color top part    | black                                                                |
| Shock resistance  | IK06                                                                 |
| Torque mount      | 0.7 ±0.1 Nm (for countersunk screws according to DIN 7991/ISO 10642) |
| Torque M12        | max. 0.4 Nm                                                          |

## ➔ FRVKOO - Emergency stop button

|                                                  |                                      |
|--------------------------------------------------|--------------------------------------|
| Series                                           | SHORTRON®                            |
| Front bezel color                                | yellow                               |
| Release                                          | twist release, left/right            |
| Mechanical life                                  | 50,000 Switching cycles              |
| Electrical life                                  | 50,000 Switching cycles              |
| Contact type                                     | 2 NC                                 |
| Conditional short-circuit I <sub>q</sub>         | 1,000 A                              |
| Rated impulse withstand voltage U <sub>imp</sub> | 2.5 kV                               |
| Short circuit means (recommendation)             | Safety fuse 1A gG                    |
| Positive opening contact                         | according to EN60947-5-1, appendix K |



## ➔ ST - Push button

|                   |                            |
|-------------------|----------------------------|
| Series            | SHORTRON® Zwischenbau      |
| Front bezel color | silver                     |
| Mechanical life   | 1,000,000 Switching cycles |
| Illumination      | LED 3mm, white             |



### Accessories

BSRRU  T22RRBL 



## ➔ ST - Push button

|                   |                            |
|-------------------|----------------------------|
| Series            | SHORTRON® Zwischenbau      |
| Front bezel color | silver                     |
| Mechanical life   | 1,000,000 Switching cycles |
| Illumination      | LED 3mm, white             |



### Accessories

BSRRU  T22RRRT 

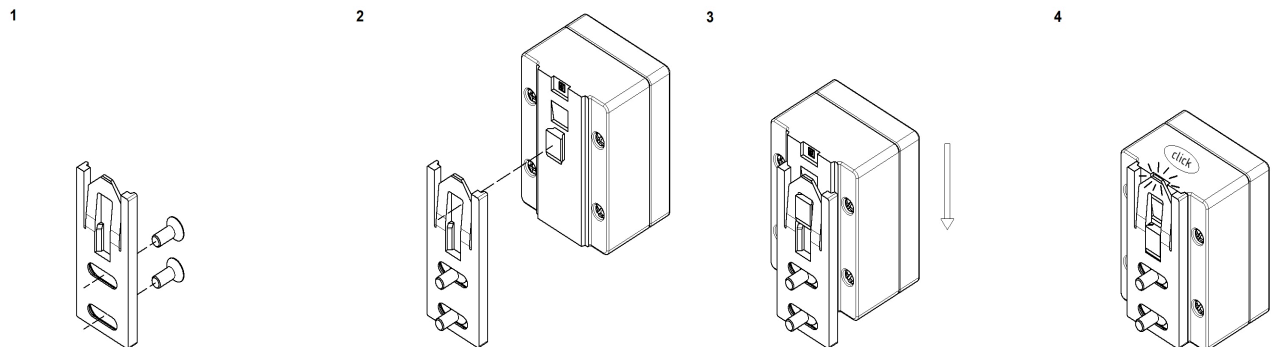


## ➔ SWB - Selector button

|                    |                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------|
| Series             | SHORTRON® Zwischenbau                                                                                            |
| Front bezel color  | silver                                                                                                           |
| Switching position | <ul style="list-style-type: none"> <li>• -60° latching</li> <li>• 0° latching</li> <li>• 60° latching</li> </ul> |

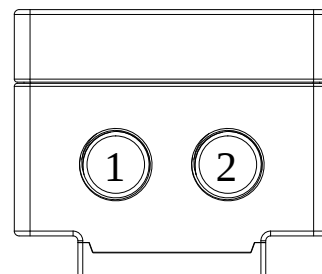
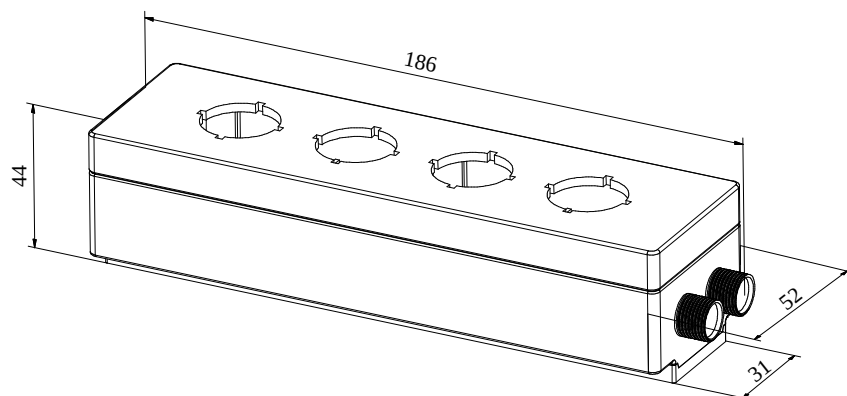


## Mounting



The mounting bracket is part of the delivery, the fixing material (screw, slot nuts) is not included. Please use M5 countersunk screws acc. to DIN 7991/ISO 10642 of appropriate length. The tightening torque for the screws to fix the mounting bracket is  $0.7 \pm 0.1\text{Nm}$ .

## Dimensional drawing



| Connector 1 5-pole M12 | Function |
|------------------------|----------|
| Pin 1                  | L+       |
| Pin 2                  | DI/DQ    |
| Pin 3                  | L-       |
| Pin 4                  | C/Q      |
| Pin 5                  | not used |

| Connector 2 5-pole M12 | AIDA function | Expansion |
|------------------------|---------------|-----------|
| Pin 1 - Brown          | S-11 (NC 1)   | N+1       |
| Pin 2 - White          | S-21 (NC 2)   | B         |
| Pin 3 - Blue           | not used      | GND       |
| Pin 4 - Black          | S-12 (NC 1)   | A         |
| Pin 5 - Grey           | S-22 (NC 2)   | V+        |

| Input data image (IDI) |            | Output data image (ODI) |                       |
|------------------------|------------|-------------------------|-----------------------|
| Data bit               | Function * | Data bit                | Function *            |
| I0                     | S1 – NO 1  | Q0                      | S1 - LED / Color 1 ** |
| I1                     | S1 – NO 2* | Q1                      | S2 - LED / Color 1 ** |
| I2                     | S2 – NO 1  | Q2                      | S3 - LED / Color 1 ** |
| I3                     | S3 – NO 1* | Q3                      | S1 - LED / Color 2 ** |
| I4                     | S2 – NO 2  | Q4                      | S2 - LED / Color 2 ** |
| I5                     | S3 – NO 2* | Q5                      | S3 - LED / Color 2 ** |
| I6                     | -          | Q6                      | External Output 1     |
| I7                     | -          | Q7                      | External Output 2     |

\* In case of two contacts

\*\* In case of illumination

## Images



## Labeling

| Position | Alignment  | Left | Center | Right  |
|----------|------------|------|--------|--------|
| 4        | horizontal | -    | ESTOP  | -      |
| 3        | horizontal | -    | RESET  | -      |
| 2        | horizontal | -    | STOP   | -      |
| 1        | vertical   | LOCK | -      | UNLOCK |