

## Technical data

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Rated insulation voltage $U_i$	30 V AC/DC
Thermal continuous current $I_{th}$	0.1 A / 1 A (emergency-stop)
Rated operating voltage $U_e$	30 V AC/DC
Rated operating current $I_e$	0.1 A / 1 A (emergency-stop)
Rated surge voltage	0.5 kV
Degree of protection	IP65
Operating temperature	-25°C ... 70°C
Storage temperature	-40°C ... 80°C
Connection *	5, 8 or 12 pole M12 connector, A coded
Overvoltage category	2
Pollution degree	II
Approvals	CE, TÜV and UL in preparation

\* the second connector is always a separate one for the emergency-stop (5 pole M12 connector, AIDA)

### Enclosure PXM(1, 2, 3, 4)

Tightening torque (mounting bracket)	0.7 ±0.1 Nm (for countersunk screws acc. to DIN 7991/ISO 10642)
Tightening torque (M12 connector)	max. 0.4 Nm
Colour	bottom part: dark grey, cover: black
Material	PA

### Emergency-stop RRJUV

Contact type	2 NC
Foolproof	yes
Switching position indicator	yes
Release	by turning to the right or left
Positive opening contacts	acc. to EN60947-5-1, appendix K
Mechanical life	30.000 switching cycles
Electrical life	30.000 switching cycles

### Pilot light RRJN, RRJVAN, RRJNSW

Illumination type	white LED, 3 mm
Electrical data LED	24 V, 10 - 15 mA

### Pushbutton RRJT, RRJVAT, RRJTSW

Contact type	NO
Operating travel	3mm
Mechanical life	1 million switching cycles
Electrical life	1 million switching cycles
Illumination type	white LED, 3 mm
Electrical data LED	24 V, 10 - 15 mA

### Key switch RRJ(VA)SSA15(SW)

Switching function	maintained
Switching positions	2 (0°, 90° right)
Mechanical life	30.000 switching cycles
Electrical life	30.000 switching cycles

### RRJ(VA)SSA12(SW)

Switching function	maintained
Switching positions	3 (90° left, 0°, 90° right)
Mechanical life	30.000 switching cycles
Electrical life	30.000 switching cycles

### Selector switch RRJ(VA)WAL(SW)\_KL

Switching function	maintained
Switching positions	2 (45° left, 45° right)
Mechanical life	30.000 switching cycles
Electrical life	30.000 switching cycles
Illumination type	white LED, 3 mm
Electrical data LED	24 V, 10 - 15 mA

### RRJ(VA)WBL(SW)\_KL

Switching function	maintained
Switching positions	3 (60° left, 0°, 60° right)
Mechanical life	30.000 switching cycles
Electrical life	30.000 switching cycles
Illumination type	white LED, 3 mm
Electrical data LED	24 V, 10 - 15 mA

### Nameplate BSRRU, BSRR(number)

Material	PET
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### Lens T22RR(KL, RT, GN, BL, GB) / lens K22RR(KL, RT, GN, BL, GB)

Colour	clear (KL), red (RT), green (GN), blue (BL), yellow (GB)
Material	PA

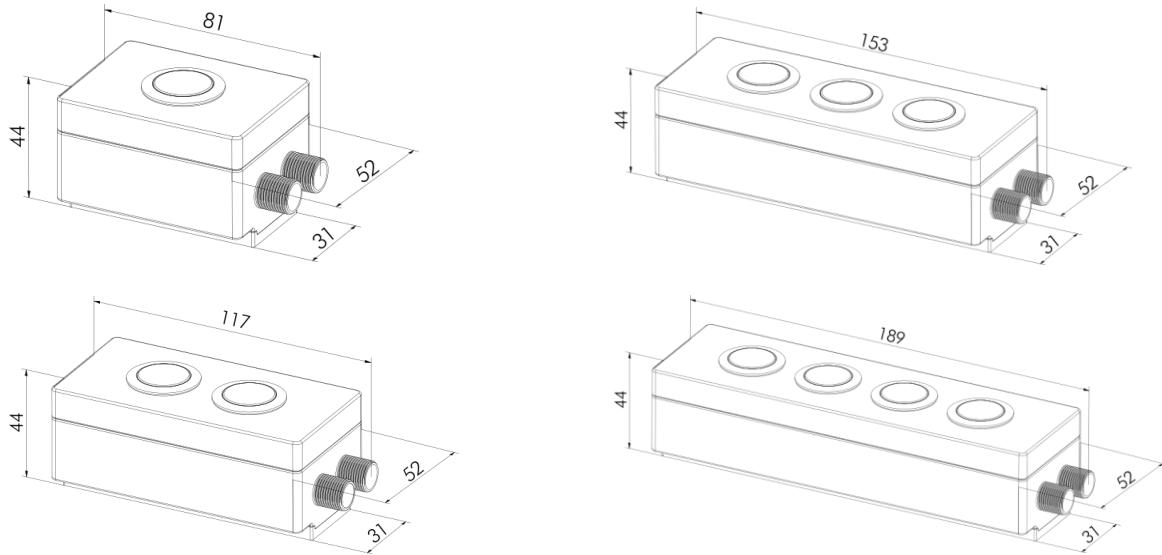
### Marking tag PXABT

Colour	black
Material	PA

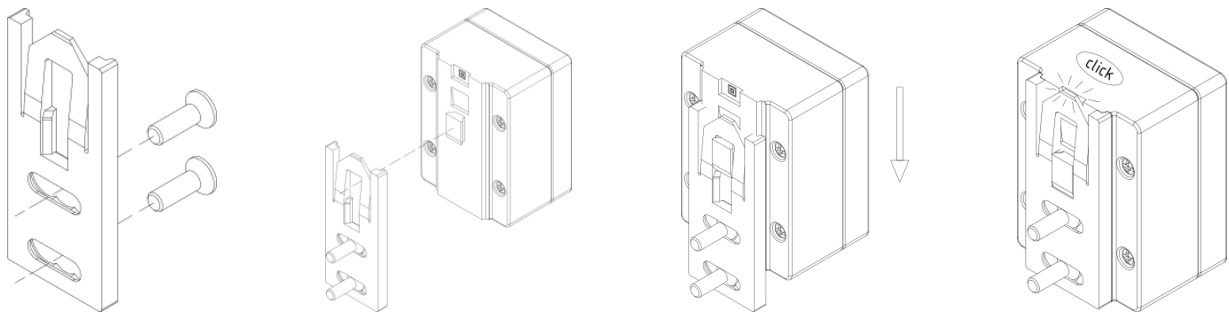
### Closing cap for M12 connector PXSKM

Colour	black
Material	PA

## Dimensional drawings



## Assembly



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  $0.7 \pm 0.1$  Nm.

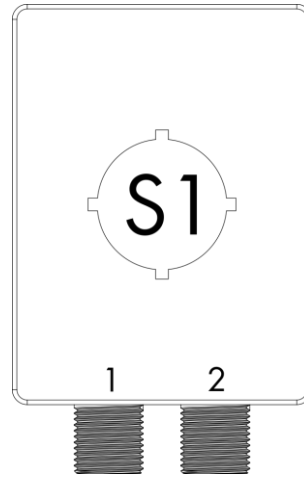
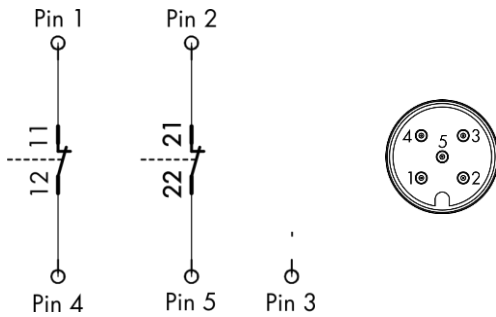
## Pin assignments of M12 connectors

### 1 mounting position with emergency-stop

#### Connector 2

Emergency-stop on mounting position **S1**.

**Connector 1** is not used.

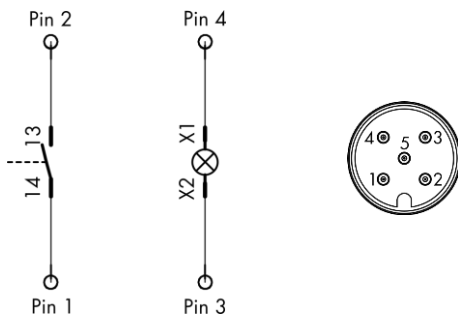


### 1 mounting position without emergency-stop

#### Connector 1

Pushbutton, pilot light or 2-position selector/key switch on mounting position **S1**.

**Connector 2** is not used.

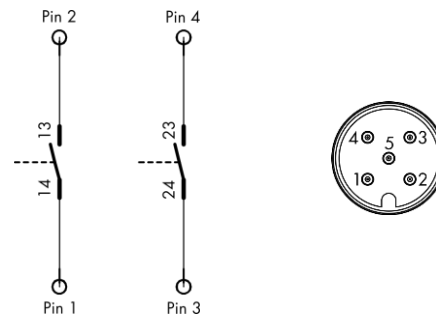


In addition, the pushbutton and selector switch can be illuminated.

#### Connector 1

3-position selector/key switch on mounting position **S1**.

**Connector 2** is not used.

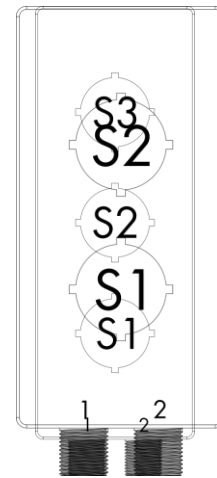
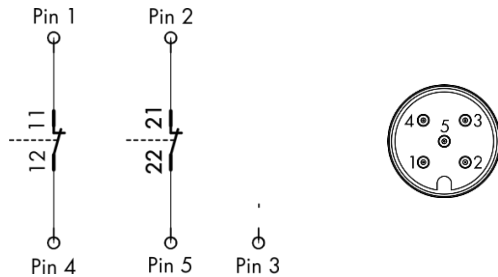


An illumination is not possible.

## 2 mounting positions with emergency-stop

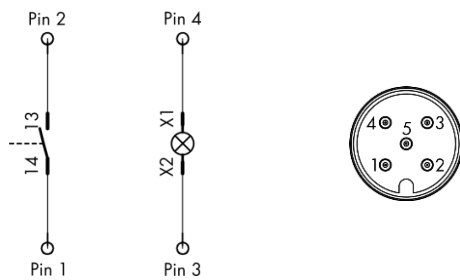
### Connector 2

Emergency-stop on mounting position **S2**.



### Connector 1

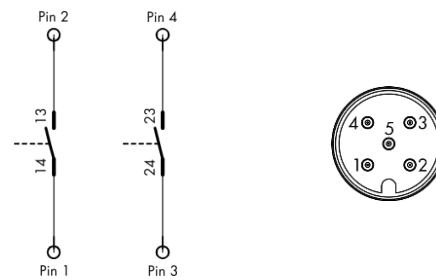
Pushbutton, pilot light or 2-position selector/key switch on mounting position **S1**.



In addition, the pushbutton and selector switch can be illuminated.

### Connector 1

3-position selector/key switch on mounting position **S1**.



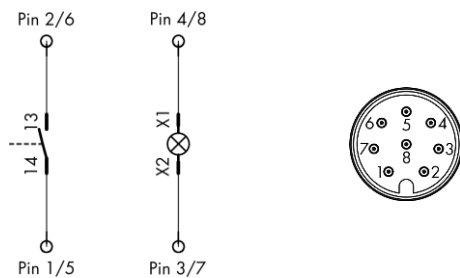
An illumination is not possible.

## 2 mounting positions without emergency-stop

### Connector 1

Pushbutton, pilot light on mounting position **S1** or **S2** or 2-position selector/key switch on mounting position **S1**.

**Connector 2** is not used.

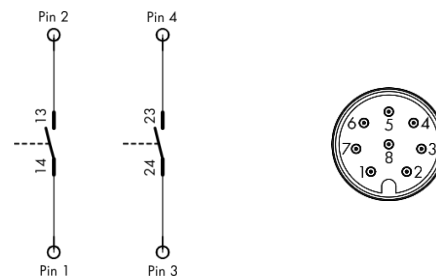


In addition, the pushbutton and selector switch can be illuminated.

### Connector 1

3-position selector/key switch on mounting position **S1**.

**Connector 2** is not used.

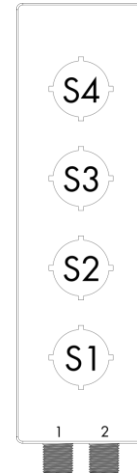
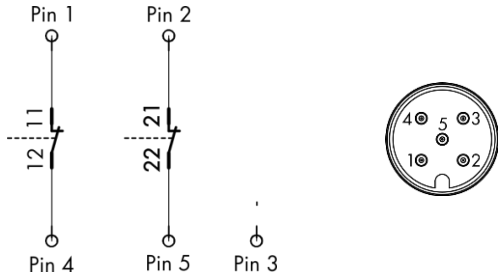


An illumination is not possible.

## 3 mounting positions with emergency-stop

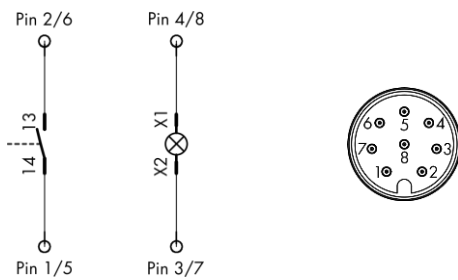
**Connector 2**

Emergency-stop on mounting position **S3**.



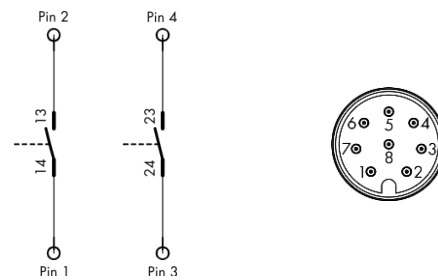
**Connector 1**

Pushbutton, pilot light on mounting position **S1** or **S2** or 2-position selector/key switch on mounting position **S1**.



**Connector 1**

3-position selector/key switch on mounting position **S1**.



In addition, the pushbutton and selector switch can be illuminated.

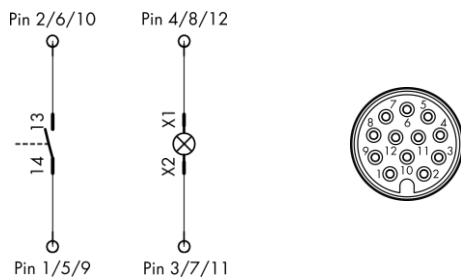
An illumination is not possible.

**3 mounting positions without emergency-stop**

**Connector 1**

Pushbutton, pilot light on mounting position **S1**, **S2** or **S3** or 2-position selector/key switch on mounting position **S1**.

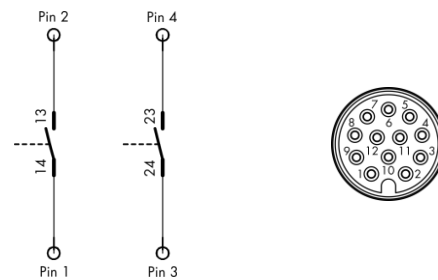
**Connector 2** is not used.



**Connector 1**

3-position selector/key switch on mounting position **S1**.

**Connector 2** is not used.



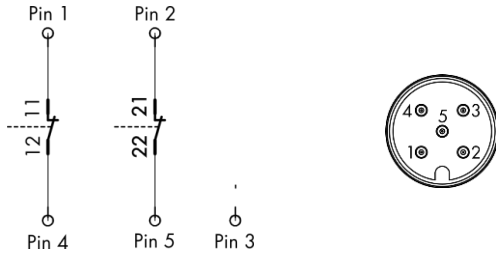
In addition, the pushbutton and selector switch can be illuminated.

An illumination is not possible.

**4 mounting positions with emergency-stop**

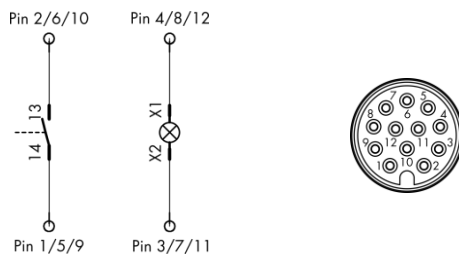
**Connector 2**

Emergency-stop on mounting position **S4**.



**Connector 1**

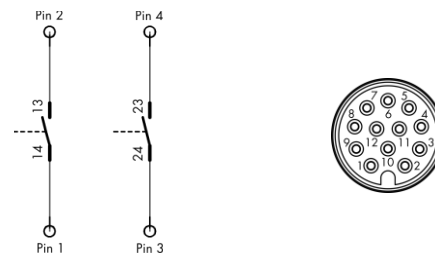
Pushbutton, pilot light on mounting position **S1, S2** or **S3** or 2-position selector/key switch on mounting position **S1**.



In addition, the pushbutton and selector switch can be illuminated.

**Connector 1**

3-position selector/key switch on mounting position **S1**.



An illumination is not possible.

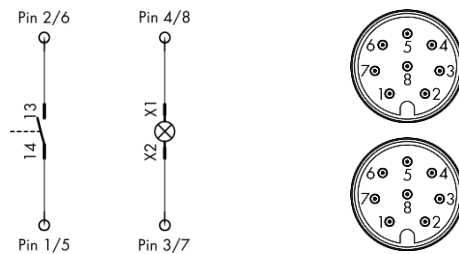
**4 mounting positions without emergency-stop**

**Connector 1**

Pushbutton, pilot light on mounting position **S1** or **S2** or 2-position selector/key switch on mounting position **S1**.

**Connector 2**

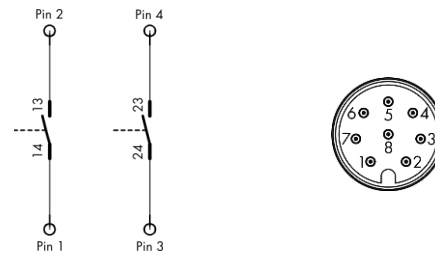
Pushbutton, pilot light on mounting position **S3** or **S4**



In addition, the pushbutton and selector switch can be illuminated.

**Connector 1**

3-position selector/key switch on mounting position **S1**.



An illumination is not possible.