

# Three-position switch 3131

## Description

Single pole three-position switch with latching or momentary switch functions. Featuring a soft-touch contoured rocker actuator with optional illumination. The 3131 is sealed to provide IP66 rated front of panel water splash protection.

## Typical applications

Household appliances, electrical tools, mobile homes, watercraft, construction vehicles, medical equipment

## Ordering Information

### Type number

**3131** Single pole switch (3 positions)

#### Function

**B** 3-position switch single pole, switching function

**D** 3-position switch single pole, momentary switch function

#### Mounting

**F** flange mounting

#### Accessories

**1** with sealing IP66

#### Terminal design

**N** blade terminals 2x2.8x0.8 EN 60934

#### Characteristic curve

**Q** switch only,

#### Actuator style

**0** without actuator  
rocker X3131-W... must be ordered separately

#### Actuator colour

**0** without actuator

#### Rocker legends

**00** without

#### Rocker marking

**0** without

#### Orientation

**0** without

#### Illumination

**2** two LEDs, full illumination in position 1 and 2, dimmed illumination in position 0

#### Type of illumination

**T** blue LED

**Y** yellow LED

#### Illumination voltage range

**0** without illumination

**2** 10 - 14 V DC

**3** 20 - 32 V DC

#### Current ratings

**20 A**

**3131 - B F 1 N Q - 0 0 00 0 - 2 Y 3 - 20A** ordering example



**3131**  
Three-position switch

## Technical data

For further details please see chapter: Technical Information

|                                      |                                                                                                     |
|--------------------------------------|-----------------------------------------------------------------------------------------------------|
| Voltage rating                       | DC 32 V                                                                                             |
| Current rating                       | 20 A                                                                                                |
| Typical life                         | 30,000 operations at 1 x I <sub>N</sub> , inductive                                                 |
| Ambient temperature                  | -20...+60 °C (-4...+140 °F)                                                                         |
| Insulation co-ordination (IEC 60664) | 2.5 kV/2<br>re-inforced insulation in the operating area                                            |
| Dielectric strength                  | operating area test voltage AC 3,000 V<br>current path/current path test voltage AC 1,500 V         |
| Insulation resistance                | > 100 MΩ (DC 500 V)                                                                                 |
| Protection class (IEC 60529)         | operating area IP66<br>terminal area IP00                                                           |
| Vibration                            | 5 g (57-500 Hz) ± 0.38 mm (10-57 Hz)<br>test to IEC 60068-2-6, test Fc,<br>10 frequency cycles/axis |
| Shock                                | 25 g (11 ms),<br>test to IEC 60068-2-27, test Ea                                                    |
| Corrosion                            | 96 hours at 5 % salt mist,<br>test to IEC 60068-2-11, test Ka                                       |
| Humidity                             | 240 hours at 95 % RH,<br>test to IEC 60068-2-78, test Cab                                           |
| Mass                                 | approx. 30 g                                                                                        |

## Illumination voltage / power consumption

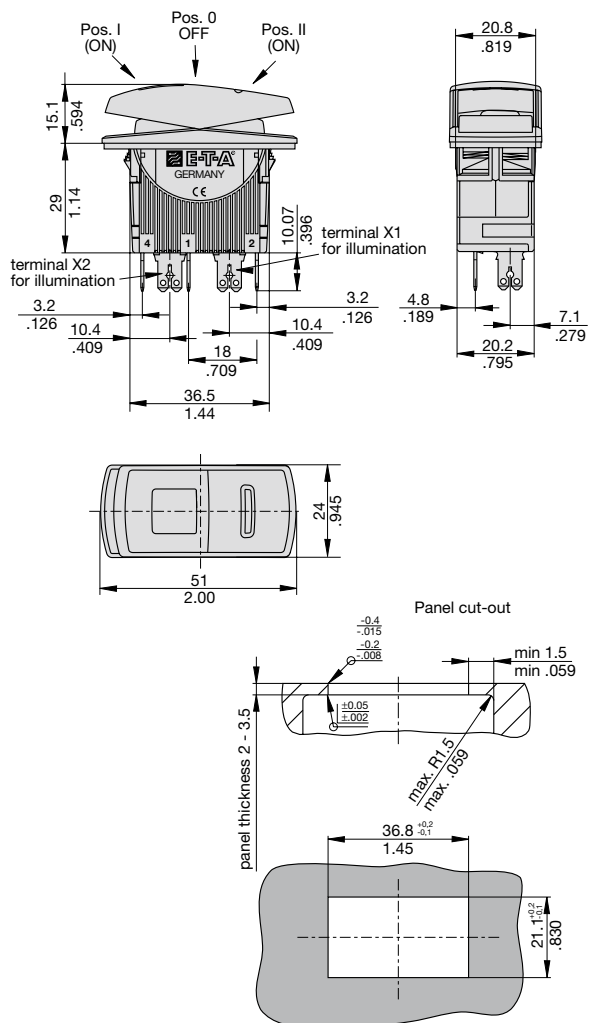
| operating voltage | power consumption (LED) |
|-------------------|-------------------------|
| 12 V              | 10 mA                   |
| 24 V              | 10 mA                   |

## Approvals

| Authority | Standard                      | Rated voltage | Current ratings |
|-----------|-------------------------------|---------------|-----------------|
| UL        | UL 1500<br>Ignition Protected | DC 32 V       | 20 A            |

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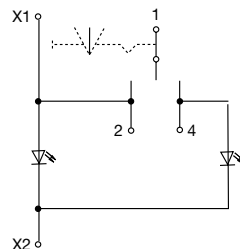
## Dimensions



## Internal connection diagrams

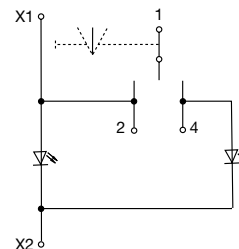
### latching switch

#### with illumination

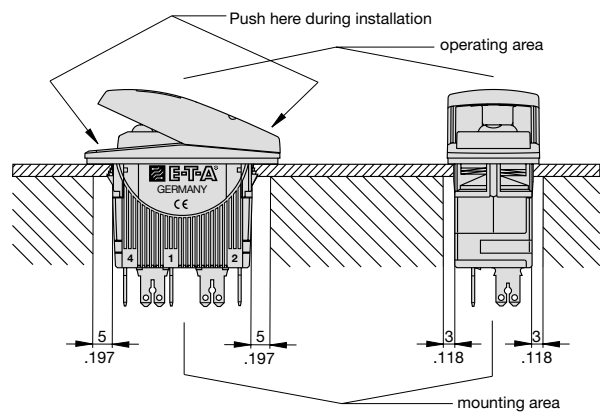


### momentary switch

#### with illumination



## Installation drawing



This is a metric design and millimeter dimensions take precedence ( $\frac{\text{mm}}{\text{inch}}$ )

## List of available legends

|                              |                                                                                   | Ordering information |
|------------------------------|-----------------------------------------------------------------------------------|----------------------|
| Anchor                       |  | 07                   |
| Windshield wiper             |  | 08                   |
| Bilge pump                   |  | 09                   |
| Ventilation fan              |  | 12                   |
| Trim tabs                    |  | 25                   |
| Mast lift                    |  | 26                   |
| Further symbols upon request |                                                                                   |                      |

## Ordering Information X3131-...

### Type number

**X3131** module for type 3131

### Actuator style

**W** rocker soft-touch,  
two illumination windows

### Actuator colour

**A** blue / white translucent  
**B** black / white translucent  
**C** skyblue / white translucent

### Rocker legends

**00** without  
... see separate survey of legends

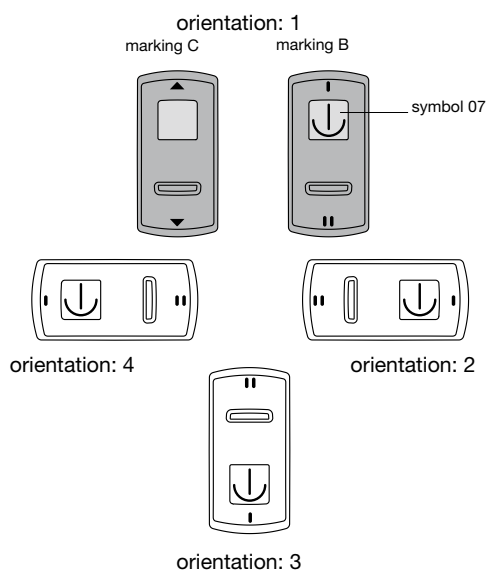
### Rocker marking

**0** without  
**B** I and II  
**C** ◀ and ▶ (orientation 1 only)

### Orientation

**0** without orientation  
**1** orientation 1 (standard)  
**2** orientation 2  
**3** orientation 3  
**4** orientation 4

**X3131 - W A 07 0 1** ordering example



## Accessories

### Mounting frame

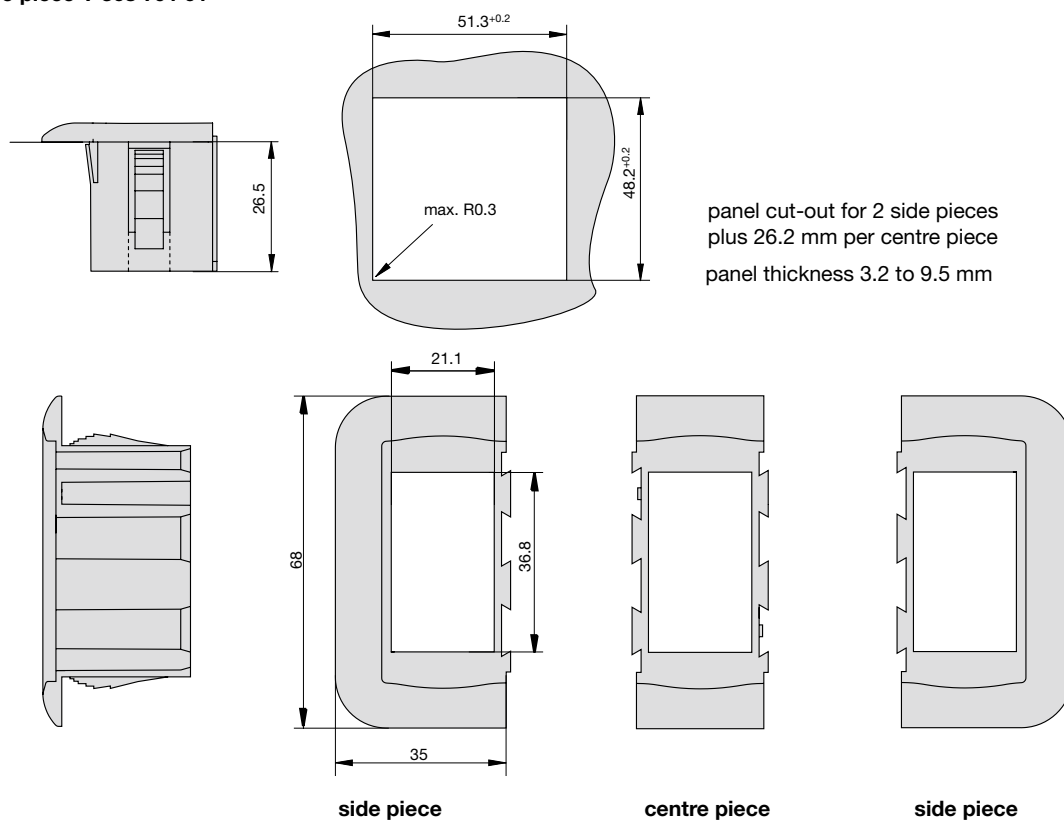
Consisting of a left- and right-side piece, can be expanded by a centre piece.

(Please order 2 side pieces per mounting frame)

The pieces firmly engage when stuck together.

**side piece Y 308 790 01**

**centre piece Y 308 791 01**



This is a metric design and millimeter dimensions take precedence (mm)  
inch

All dimensions without tolerances are for reference only. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved. Product markings may not be exactly as the ordering codes. Errors and omissions excepted.

## Данный компонент на территории Российской Федерации

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