

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

Illumination voltage / power consumption

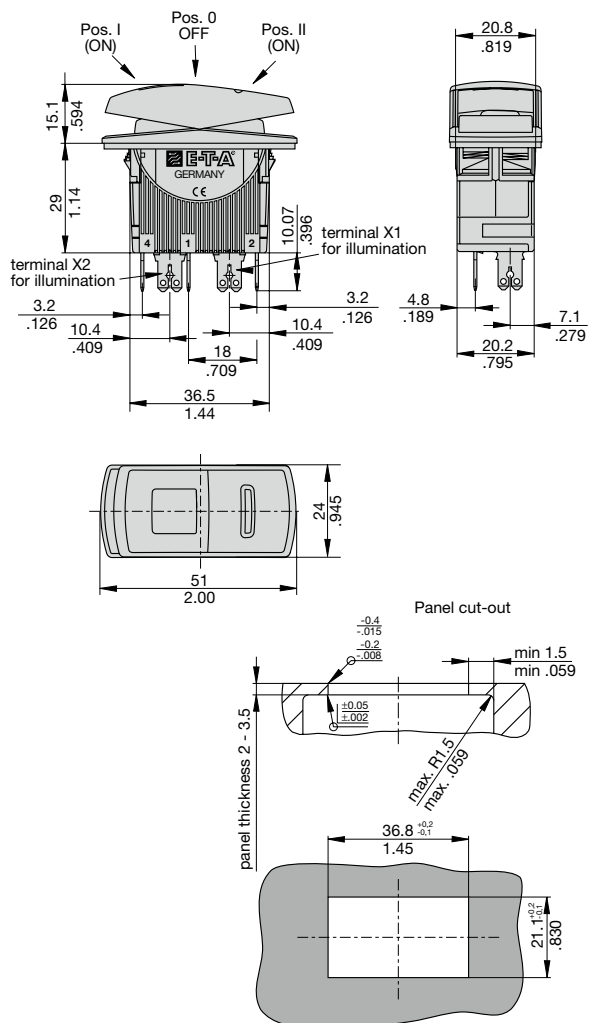
operating voltage	power consumption (LED)
12 V	10 mA
24 V	10 mA

Approvals

Authority	Standard	Rated voltage	Current ratings
UL	UL 1500 Ignition Protected	DC 32 V	20 A

Three-position switch 3131

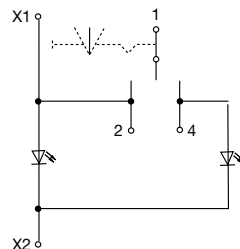
Dimensions



Internal connection diagrams

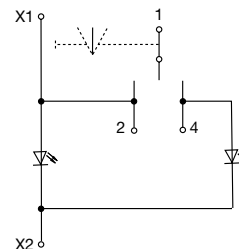
latching switch

with illumination

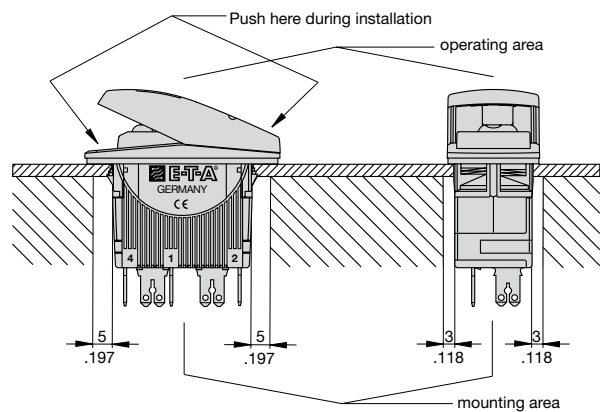


momentary switch

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

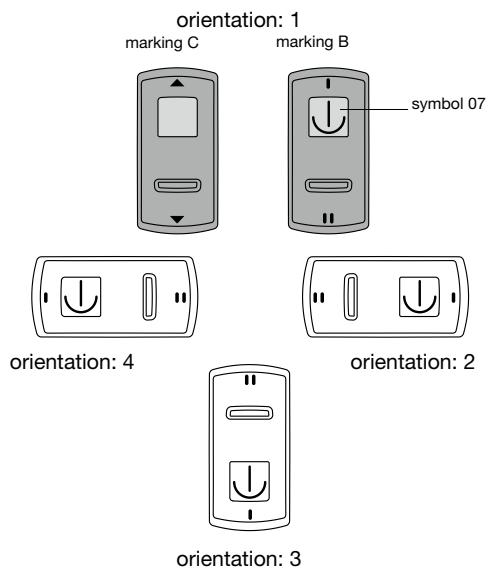
Rocker marking

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

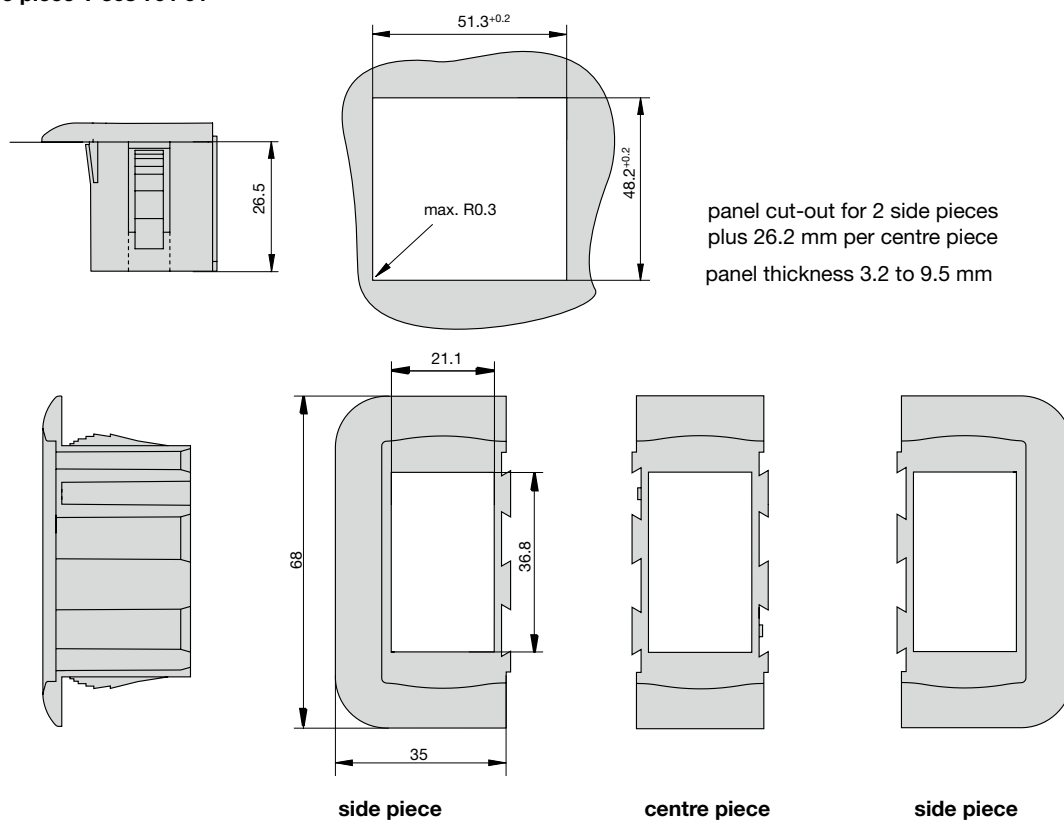
Consisting of a left- and right-side piece, can be expanded by a centre piece.

(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

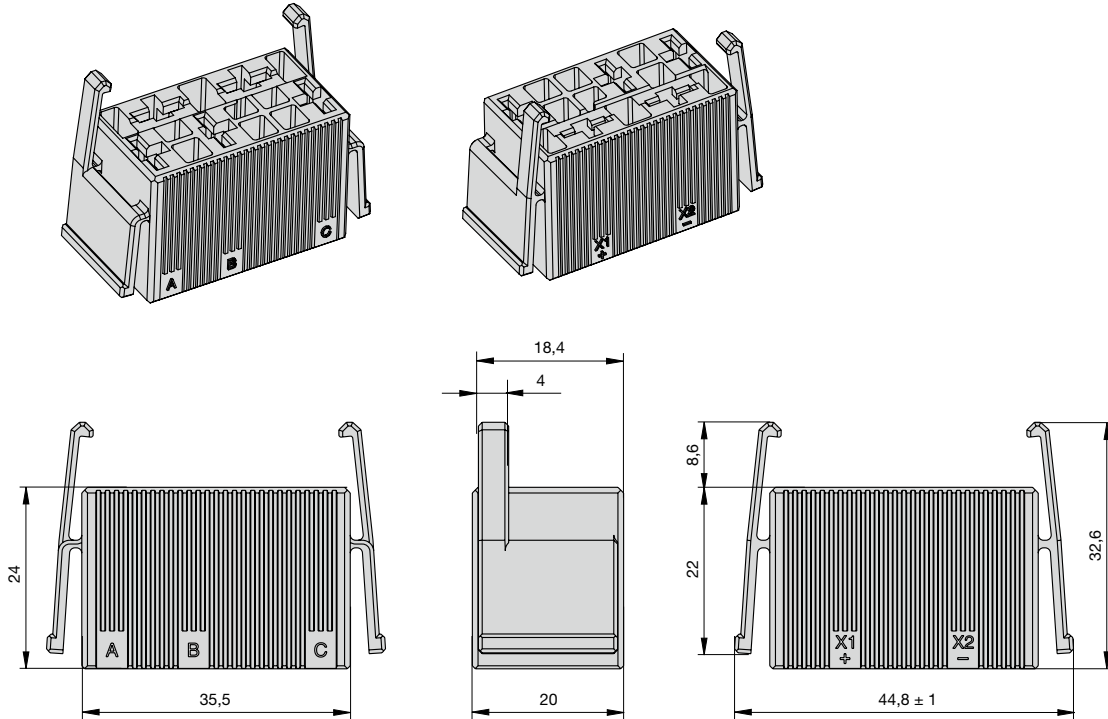
All dimensions without tolerances are for reference only. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved. Product markings may not be exactly as the ordering codes. Errors and omissions excepted.

Accessories – Plug-in connector

Plug-in connector

Y31192901

Connecting cables can be pre-wired. Two retaining clips ensure a tight fit.



Benefits:

- Reduced installation time for final assembly
- Quick replacement of devices

Note:

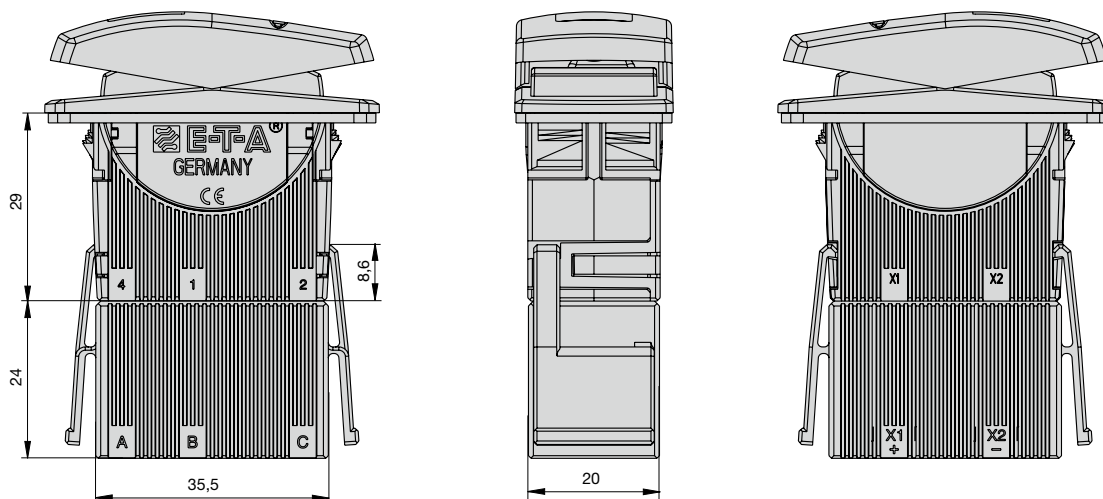
Delivery without receptacles.

Dimensions with DIN 46340 part 3, shape A.

Examples of suitable receptacles: Stocko RSB 7916 F6,3-1 / Klauke type 2730 / Vogt type 3832d.67 /

TE FASTON Terminals 250 Series / Delphi Packard 58 Series

Plug-in connector mounted on three-position switch:



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

E-T-A Circuit Breakers:

[3131-BF1NQ-000000-2Y2-20A](#) [3131-BF1NQ-000000-000-20A](#) [3131-DF1NQ-000000-2Y2-20A](#) [3131-BF1NQ-000000-2T3-20A](#) [3131-BF1NQ-000000-2T2-20A](#)