



SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC



PRODUCT FEATURES

- 100 million times proven switching principle
- mechanical life endurance up to 1 million switching cycles
- Large variety
- Variants with IP 67 or dust protection insert
- Two housing variants
- Actuating characteristic
- Illuminated and non-illuminated variants
- Approval for 400 V (product-dependent)

ON REQUEST

- Other colors
- Other rocker printings
- Other lamp variants
- Snap-on customized actuators
- Cable assembly

Mechanical life endurance	10E4 5E4 (basic type 1839) 1E6 (product-dependent)
Inrush current (capacitive)	120 A / 50 A (contact pair Ag / Cu and basic type 1834)
Contact resistance (new condition)	< 100 mOhm (1 A 12 V DC)
Insulation resistance (new condition)	> 100 MOhm (500 V DC)
Proof tracking	250 PTI
Protection type	IP 40 / IP 67 (product-dependent)
Ambient temperature	terminal side -20 °C ... +105 °C / ... +85 °C / ... +100 °C (product-dependent) actuating side -20 °C ... +55 °C
Flammability	UL 94 V-2 UL 94 V-0 (product-dependent)
Glow wire test temperature	850 °C
Material actuator housing terminals	PA / PC (product-dependent) PA silver plated / tinned (product-dependent)
Plug force of the terminals	≤ 80 N
Approval marks	 /  /  / 
Suitable for appliances of protection class II	



SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

single-pole 	ON / OFF switch (SPST)	1830.3112	1830.3118	1830.0102	1831.0114	1831.3312	1831.3313	1831.3606	1831.3607	1831.3815	1831.3816	1831.3933	1831.8112	1831.3311	1831.1107
		230	230	230											
Lighting voltage (V)															
Actuator color / printing															
Housing color															
20 (4) A 250 V AC 1E4		o	o		o	o	o	o	o	o	o	o	o		
20 (4) A 250 V AC														o	
16 (4) A 250 V AC 1E4															
10 (8) A 400 V AC 5E4															
10 (8) A 250 V AC 5E4		o	o		o	o	o	o	o	o	o	o	o	o	
10 (4) A 250 V AC 1E4				o											o
10 A 12 V DC															
6 (4) A 250 V AC 5E4				o											o
6 (4) A 250 V AC 1E4															
6 (4) A 250 V AC															
4 (2) A 250 V AC 1E4															
30 mA 12 V DC															
16 A 250 V AC 1 HP		o	o		o	o	o	o	o	o	o	o	o	o	
16 A 250 V AC 1/2 HP															
16 A 125 V AC 1/3 HP					o	o	o	o	o	o	o	o	o	o	
16 A 125 V AC 1/4 HP															
6 A 250 V AC 1/2 HP				o											o
6 A 125 V AC 1/4 HP															o
6 A 125 - 250 V AC 1/8 HP															
6 A 125 V AC 1/10 HP															
4 A 250 V AC 1/10 HP															
Terminal type															
Terminal description		6.3	6.3			6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	4.8
Contact distance (mm)		≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3
Contact material		Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag
EN 60335 cap. 30 conform "G"								o	o					o	
Miscellaneous								housing with 2 separating gates	housing with 2 separating gates	1E6 mechanical life endurance IP 67	1E6 mechanical life endurance IP 67		lower lying flange		
Stock version		o	o			o	o						o	o	o

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

ECO

PUSH N DRIVE



SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

 single-pole													
Lighting voltage (V)													
Actuator color / printing													
Housing color													
20 (4) A 250 V AC 1E4													
20 (4) A 250 V AC													
16 (4) A 250 V AC 1E4													
10 (8) A 400 V AC 5E4													
10 (8) A 250 V AC 5E4													
10 (4) A 250 V AC 1E4													
10 A 12 V DC													
6 (4) A 250 V AC 5E4													
6 (4) A 250 V AC 1E4													
6 (4) A 250 V AC													
4 (2) A 250 V AC 1E4													
30 mA 12 V DC													
16 A 250 V AC 1 HP													
16 A 250 V AC 1/2 HP													
16 A 125 V AC 1/3 HP													
16 A 125 V AC 1/4 HP													
6 A 250 V AC 1/2 HP													
6 A 125 V AC 1/4 HP													
6 A 125 - 250 V AC 1/8 HP													
6 A 125 V AC 1/10 HP													
4 A 250 V AC 1/10 HP													
Terminal type													
Terminal description	4.8												
Contact distance (mm)	≥ 3												
Contact material	Ag												
EN 60335 cap. 30 conform “G”													
Miscellaneous	lower lying flange												
Stock version													

Normally open switch (SPNO)													
	1831.1202	1831.3402	1831.8202	1831.1253									
													
													



SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

single-pole 	Changeover switch with OFF position in the center (SPDT - Center OFF)				Changeover switch (SPDT momentary)			
	1838.4307	1838.8302	1838.3402	1838.3502	1835.3902	1833.1202	1833.3402	
Lighting voltage (V)					230			
Actuator color / printing								
Housing color								
20 (4) A 250 V AC 1E4								
20 (4) A 250 V AC								
16 (4) A 250 V AC 1E4								
10 (8) A 400 V AC 5E4								
10 (8) A 250 V AC 5E4								
10 (4) A 250 V AC 1E4								
10 A 12 V DC								
6 (4) A 250 V AC 5E4								
6 (4) A 250 V AC 1E4								
6 (4) A 250 V AC								
4 (2) A 250 V AC 1E4								
30 mA 12 V DC								
16 A 250 V AC 1 HP								
16 A 250 V AC 1/2 HP								
16 A 125 V AC 1/3 HP								
16 A 125 V AC 1/4 HP								
6 A 250 V AC 1/2 HP								
6 A 125 V AC 1/4 HP								
6 A 125 - 250 V AC 1/8 HP								
6 A 125 V AC 1/10 HP								
4 A 250 V AC 1/10 HP								
Terminal type								
Terminal description	2.8	6.3	6.3	6.3	6.3	4.8	6.3	
Contact distance (mm)	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	
Contact material	Ag	Ag	Ag	Ag	Ag	Ag	Ag	
EN 60335 cap. 30 conform "G"								
Miscellaneous	momentary function one side	momentary function both sides lower lying flange	momentary function both sides		external lamp connection two-pole size			
Stock version								

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

ECO

PUSH 'N' DRIVE



SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

double-pole 	ON / OFF switch (DPST)														
Lighting voltage (V)	400	230	230	230	230	230	230	230	230	115 - 230	12				
Actuator color / printing															
Housing color															
20 (4) A 250 V AC 1E4															
20 (4) A 250 V AC															
16 (4) A 250 V AC 1E4															
10 (8) A 400 V AC 5E4															
10 (8) A 250 V AC 5E4															
10 (4) A 250 V AC 1E4															
10 A 12 V DC															
6 (4) A 250 V AC 5E4															
6 (4) A 250 V AC 1E4															
6 (4) A 250 V AC															
4 (2) A 250 V AC 1E4															
30 mA 12 V DC															
16 A 250 V AC 1 HP															
16 A 250 V AC 1/2 HP															
16 A 125 V AC 1/3 HP															
16 A 125 V AC 1/4 HP															
6 A 250 V AC 1/2 HP															
6 A 125 V AC 1/4 HP															
6 A 125 - 250 V AC 1/8 HP															
6 A 125 V AC 1/10 HP															
4 A 250 V AC 1/10 HP															
Terminal type															
Terminal description	6.3	6.3	6.3	6.3	6.3		6.3	6.3	6.3	6.3	6.3	4.8	6.3	6.3	6.3
Contact distance (mm)	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3
Contact material	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag
EN 60335 cap. 30 conform “G”															
Miscellaneous	cover frame 33.2 long					PCB holder 248.103.011 mounted lower lying flange						cover frame 33.2 long			
Stock version															

ROCKERSWITCHES

PUSHBUTTON SWITCHES

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SLIDE SWITCHES

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TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MIKRO-SIGNALSCHALTER

SENSORS

ECO

PUSH'N'DRIVE



 double-pole		ON / OFF switch (DPST)		1832.3602		
1832.6112						
1832.7103						
1832.8112						
1832.9103						
1832.0113						
1832.1102						
1832.3307						
1832.9101						
Normally open contact (DPN0)						
1832.3407						
Changeover switch (DPDT)				1835.3802		
				1834.3311		
				1834.3312		
				1835.3802		



SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

double-pole 	Changeover switch (DPDT)									
	1834.1102	1834.3302	1834.3309	1834.3603	1834.6103	Changeover switch with OFF position in the center (DPDT - Center OFF)				
Lighting voltage (V)						1839.3512	1839.1402	1839.1407	1839.1410	1839.1502
Actuator color / printing										
Housing color										
20 (4) A 250 V AC 1E4										
20 (4) A 250 V AC										
16 (4) A 250 V AC 1E4										
10 (8) A 400 V AC 5E4										
10 (8) A 250 V AC 5E4										
10 (4) A 250 V AC 1E4										
10 A 12 V DC										
6 (4) A 250 V AC 5E4										
6 (4) A 250 V AC 1E4										
6 (4) A 250 V AC										
4 (2) A 250 V AC 1E4										
30 mA 12 V DC										
16 A 250 V AC 1 HP										
16 A 250 V AC 1/2 HP										
16 A 125 V AC 1/3 HP										
16 A 125 V AC 1/4 HP										
6 A 250 V AC 1/2 HP										
6 A 125 V AC 1/4 HP										
6 A 125 - 250 V AC 1/8 HP										
6 A 125 V AC 1/10 HP										
4 A 250 V AC 1/10 HP										
Terminal type										
Terminal description										
Contact distance (mm)										
Contact material										
EN 60335 cap. 30 conform "G"										
Miscellaneous										
Stock version										

ROCKERSWITCHES

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PUSH'N'DRIVE



SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

double-pole 								
Lighting voltage (V)								
Actuator color / printing								
Housing color								
20 (4) A 250 V AC 1E4								
20 (4) A 250 V AC								
16 (4) A 250 V AC 1E4								
10 (8) A 400 V AC 5E4								
10 (8) A 250 V AC 5E4								
10 (4) A 250 V AC 1E4								
10 A 12 V DC								
6 (4) A 250 V AC 5E4								
6 (4) A 250 V AC 1E4								
6 (4) A 250 V AC								
4 (2) A 250 V AC 1E4								
30 mA 12 V DC								
16 A 250 V AC 1 HP								
16 A 250 V AC 1/2 HP								
16 A 125 V AC 1/3 HP								
16 A 125 V AC 1/4 HP								
6 A 250 V AC 1/2 HP								
6 A 125 V AC 1/4 HP								
6 A 125 - 250 V AC 1/8 HP								
6 A 125 V AC 1/10 HP								
4 A 250 V AC 1/10 HP								
Terminal type								
Terminal description								
Contact distance (mm)								
Contact material								
EN 60335 cap. 30 conform "G"								
Miscellaneous								
Stock version								

Changeover switch with OFF position in the center (DPDT - Center OFF)

Changeover switch (DPDT momentary)

ROCKER SWITCHES

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PUSH 'N' DRIVE



SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

	Lamp	1837.1118	1837.3102	1837.8102	1837.8108
		230	230	230	230
Lighting voltage (V)		230	230	230	230
Actuator color / printing					
Housing color					
20 (4) A 250 V AC 1E4					
20 (4) A 250 V AC					
16 (4) A 250 V AC 1E4					
10 (8) A 400 V AC 5E4					
10 (8) A 250 V AC 5E4					
10 (4) A 250 V AC 1E4					
10 A 12 V DC					
6 (4) A 250 V AC 5E4					
6 (4) A 250 V AC 1E4					
6 (4) A 250 V AC					
4 (2) A 250 V AC 1E4					
30 mA 12 V DC					
16 A 250 V AC 1 HP					
16 A 250 V AC 1/2 HP					
16 A 125 V AC 1/3 HP					
16 A 125 V AC 1/4 HP					
6 A 250 V AC 1/2 HP					
6 A 125 V AC 1/4 HP					
6 A 125 - 250 V AC 1/8 HP					
6 A 125 V AC 1/10 HP					
4 A 250 V AC 1/10 HP					
Terminal type					
Terminal description		4.8	6.3	6.3	6.3
Contact distance (mm)					
Contact material					
EN 60335 cap. 30 conform "G"					
Miscellaneous			size basic type 1835	size basic type 1835	
Stock version					

ROCKERSWITCHES

PUSHBUTTON SWITCHES

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SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MIKRO-SIGNALSCHALTER

SENSORS

ECO

PUSH'N'DRIVE

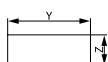


SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

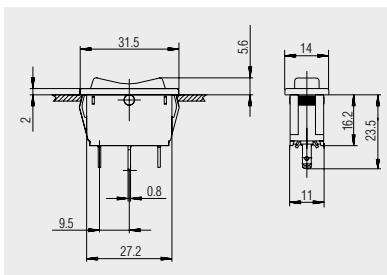


Basic types 1830, 1831,
1833 and 1838
single-pole
illuminated / non-illuminated

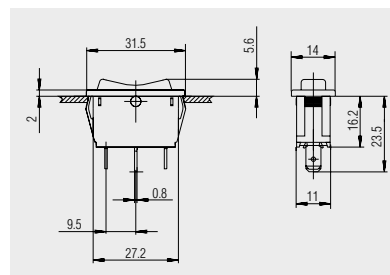


X = Wall thickness

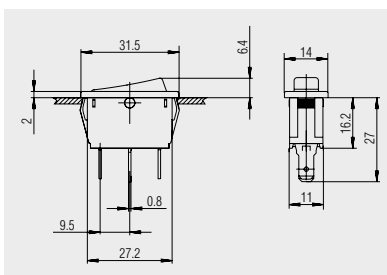
x	y	z
0.75 ... 1.25	30 ^{-0.1}	11 ^{+0.1}
1.25 ... 2	30.2 ^{-0.1}	11 ^{+0.1}
2 ... 3	30.6 ^{-0.1}	11 ^{+0.1}



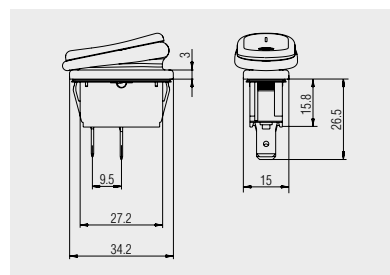
Quick-connect terminal 2.8 x 0.8
1838.4307



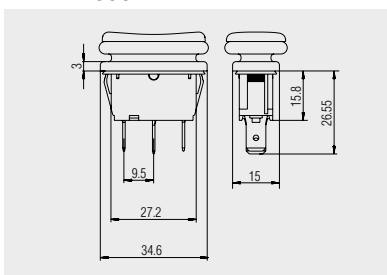
Quick-connect terminal 4.8 x 0.8
basic type 1838



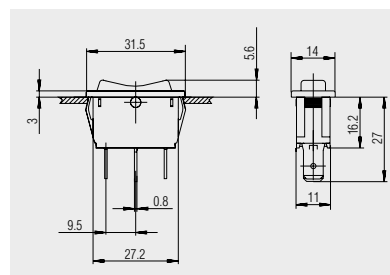
Quick-connect terminal 4.8 x 0.8
basic types 1830, 1831 and
1833



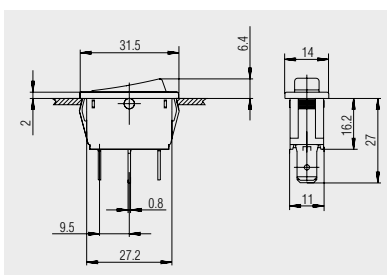
Quick-connect terminal 6.3 x 0.8
1831.3815



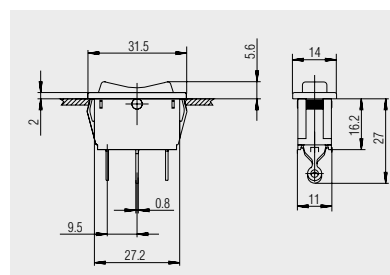
Quick-connect terminal 6.3 x 0.8
1838.3901



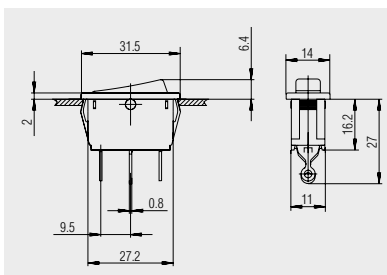
Quick-connect terminal 6.3 x 0.8
basic type 1838



Quick-connect terminal 6.3 x 0.8
basic types 1831 and 1833



Solder terminal
basic type 1838



Solder terminal
basic types 1830 and 1831

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

TOGGLE SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

ECO

PUSH 'N' DRIVE

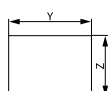


SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

T0 20 (4) A 250 V AC

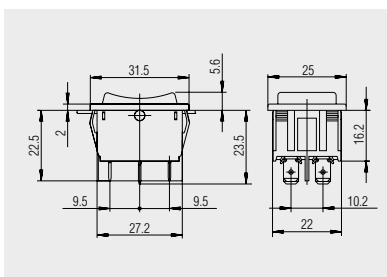


Basic types 1832, 1834,
1835 and 1839
double-pole
illuminated / non-illuminated

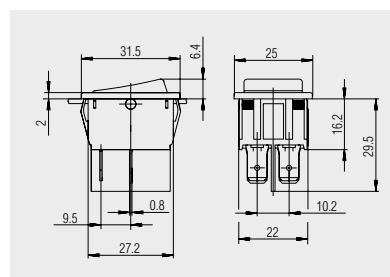


X = Wall thickness

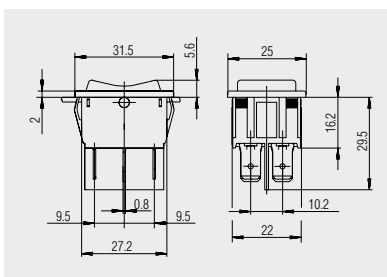
x	y	z
0.75 ... 1.25	30 ^{-0.1}	22 ^{+0.2}
1.25 ... 2	30.2 ^{-0.1}	22 ^{+0.2}
2 ... 3	30.6 ^{-0.1}	22 ^{+0.2}



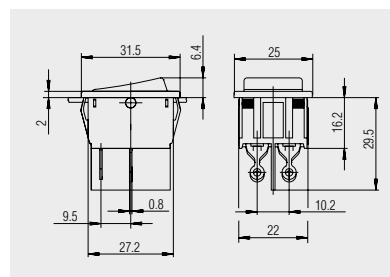
Quick-connect terminal 4.8 x 0.8



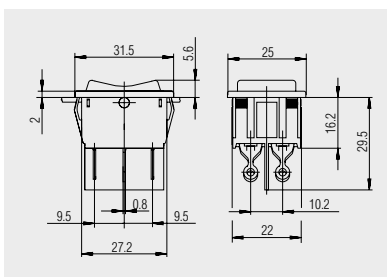
Quick-connect terminal 6.3 x 0.8 / 4.8
basic types 1832, 1834 and 1835



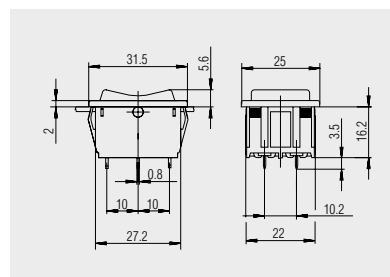
Quick-connect terminal 6.3 x 0.8
basic type 1839



Solder terminal
basic type 1832



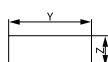
Solder terminal
basic type 1839



PCB terminal
basic type 1839

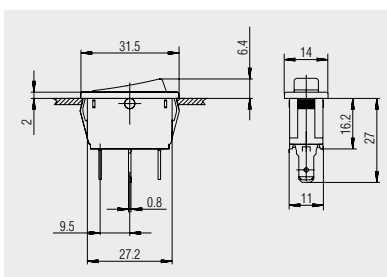


Basic types 1830, 1831 and 1833
single-pole, lower lying flange
illuminated / non-illuminated



X = Wall thickness

x	y	z
0.75 ... 1.25	30 ^{-0.1}	11 ^{+0.1}
1.25 ... 2	30.2 ^{-0.1}	11 ^{+0.1}
2 ... 3	30.6 ^{-0.1}	11 ^{+0.1}



Quick-connect terminal 4.8 x 0.8
basic types 1830, 1831 and
1833

ROCKERSWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

ECO

PUSH'N'DRIVE

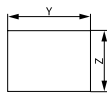


SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

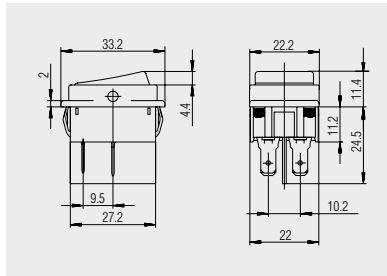


Basic types 1832, 1834,
1835 and 1839
double-pole, lower lying flange
illuminated / non-illuminated

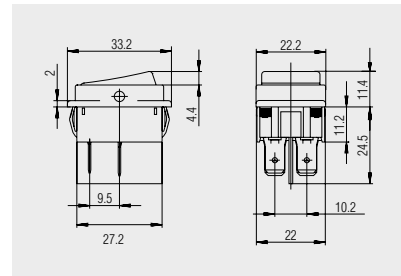


X = Wall thickness

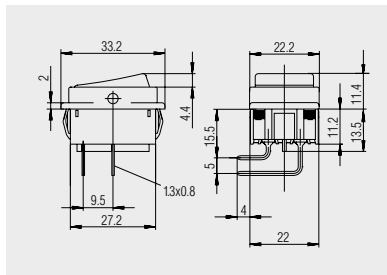
x	y	z
0.75 ... 1.25	30 ^{-0.1}	22 ^{+0.2}
1.25 ... 2	30.2 ^{-0.1}	22 ^{+0.2}
2 ... 3	30.6 ^{-0.1}	22 ^{+0.2}



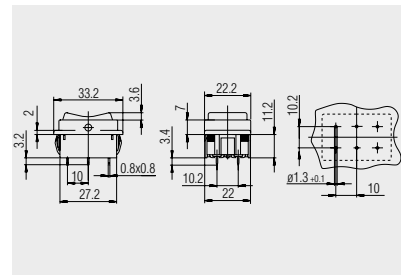
Quick-connect terminal 4.8 x 0.8
basic types 1832 and 1834



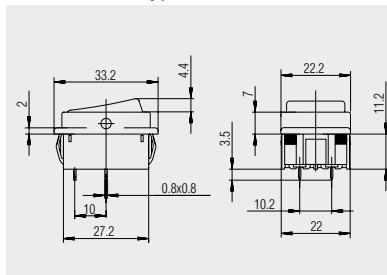
Quick-connect terminal 6.3 x 0.8
basic type 1832



PCB terminal
angled
basic types 1832 and 1835



PCB terminal
basic type 1839



PCB terminal
basic types 1832 and 1835

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

ECO

PUSH 'N' DRIVE

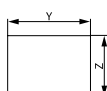


SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

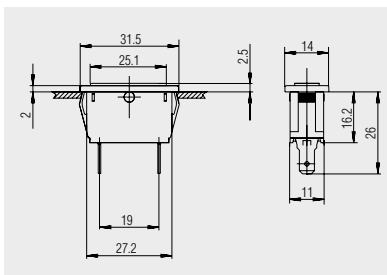


Basic type 1837 lamp
single and double-pole

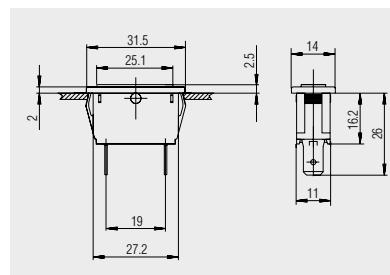


X = Wall thickness

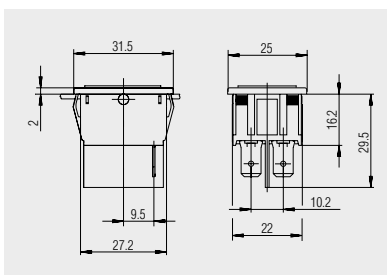
x	y	z
0.75 ... 1.25	30 ^{-0.1}	22 ^{+0.1}
1.25 ... 2	30.2 ^{-0.1}	22 ^{+0.1}
2 ... 3	30.6 ^{-0.1}	22 ^{+0.1}



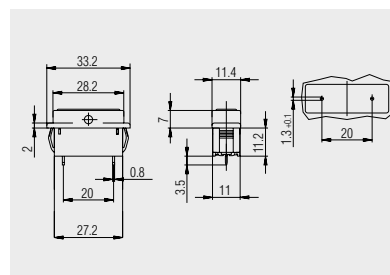
Quick-connect terminal 4.8 x 0.8
single-pole size



Quick-connect terminal 6.3 x 0.8
single-pole size



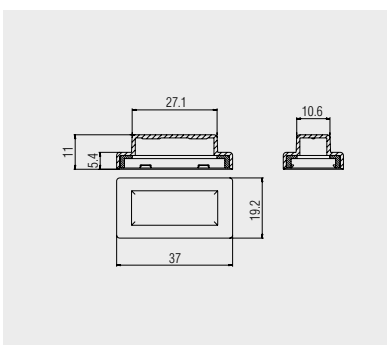
Quick-connect terminal 6.3 x 0.8
double-pole size



PCB terminal
lower lying flange
1837.2504



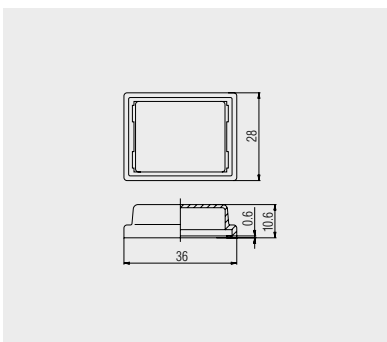
Protection cap
203.731.011



Transparent PVC-protection cap for single-pole switches of basic types 1830, 1831, 1833 and 1838. Serves as dust and water protection of the actuation side.



Protection cap
203.201.011



Transparent PVC-protection cap for double-pole switches of basic types 1832, 1834, 1835 and 1839 with frame length 33.2 mm. Serves as dust and water protection of the actuation side.

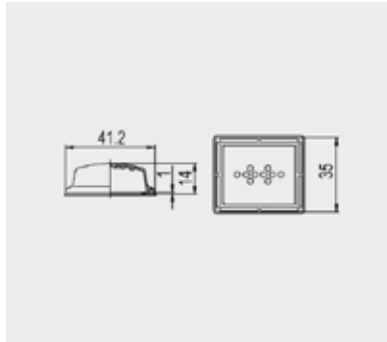


SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC



Protection cap
203.078.011



Transparent PVC-protection cap with burling. Serves as dust and water protection of the actuation side for double-pole basic types 1832, 1834, 1835 and 1839 with standard flange length 30 mm.



Dummy cap
203.145.051



Housing
217.132.031

Housing and dummy cap for double-pole size of basic types 1830, 1831, 1833, 1837 and 1838 made of PA black.

Housing and dummy cap must be assembled by the customer and make only sense in combination



Dummy cap
203.146.051



Housing
217.127.491

Housing and dummy cap for double-pole size of basic types 1832, 1834, 1835 and 1839 made of PA black.

Housing and dummy cap must be assembled by the customer and make only sense in combination



Block connector
217.954.011

Block connector for cable connection for the double-pole versions of the rocker switch series 1830 und 1930.

Used with the standard timer plug AMP 0-927 936-1

Schutzvermerk
nach DIN 34 beachten
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1

2

3

4

Empfohlener Ausschnitt für Rastbefestigung
(Grat gegenüber Bestückungsseite)
recommended cut-out for snap-in fixing
(edge opposite to snap-in direction)

Wanddicke
wall thickness

0.75 to / bis 1.25
>1.25 to / bis 2
>2 to / bis 3

Ausschnittlänge
length of cut-out

30 -0.1
30.2 -0.1
30.6 -0.1

Ausschnittbreite
width of cut-out

22 +0.2
22 +0.2
22 +0.2

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2

1

1b

9.5

27.2

5.6

R

25

31.5

R1

schwarz
black

schwarz
black

Aufschrift
Marking

1839.
6(4)/250 ~ T105/55

05

6A 125-250V AC
1/8 HP
R58

Herstellort/-jahr/-woche
nach DIN EN 60062

code of manufacture:
place / year / week
acc. to DIN EN 60062

Umschalter 2-polig
Ausstellung in der Mitte
Tastfunktion einseitig
Für Geräte der Klasse II geeignet

DPDT
with centre-off
biased from one side
suitable for appliances of class II

Flachstecker
plug-in
DIN 46244-A6.3x0.8

22 -0.3

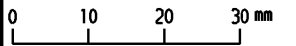
16.2

29.5

10.2

1a 1b 2a 2b

1 2

Allgemeintoleranzen/UNTOLERANCED DIMENSIONS					PROJECTION  Für Winkel FOR ANGLE	Pause COPY	Blatt SHEET		Zeichn./DRAWING NO.			
Für Längen und Radien FOR LENGTHS AND RADII.	AbmaÙe in mm Für NennmaÙbereich in mm ALL DIMENSIONS ARE IN MILLIMETRES			±			Original DIN	Maßstab SCALE				
	bis/UP TO	über/OVER	über/OVER									
	6	6 bis/UP TO 30	30									
	0.2	0.4	0.6		± 2°		A4	1:1	K 1839.3602			
d	29987	09.08.00	grh	i					Geraeteschalter Appliance Switch			
c	24370	25.11.96	grh	h								
b	21839	15.10.92	grh	g			gez./DRAWN BY 25.11.96 grh gepr./CHECKED BY Kiz		MARQUARDT Marquardt, D-78604 Rietheim-Weilheim			
a				f								
				e	64508	02.09.09 hhe	Ersatz für/REPLACEMENT OF Zeichn. gl.Nr. vom 14.02.85					
Ausg. ISSUE	Anderung REVISION	gez. DRAWN BY		Ausg. ISSUE	Anderung REVISION	gez. DRAWN BY						

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