

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
- ◆ Wide 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 printing 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 actuating side -20 °C ... +55 °C
Flammability	UL 94 V-2 UL 94 V-0
Glow wire test temperature	850 °C
Material	actuator PA / PC housing PA terminals silver plated / tinned
Plug force of the terminals	≤ 80 N
Approval marks	 /  /  / 
Suitable for appliances of protection class II	



ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

single-pole 	ON / OFF switch (SPST)							Changeover switch (SPDT momentary)	ON / OFF switch (SPST)						
	1830.3111	1830.3112	1830.3118	1830.3119	1830.8112	1830.0102	1830.6103		1835.3902	1831.0114					
Lighting voltage in V	230	230	230	230	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 125 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	4.8		6.3						
Contact distance in mm	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3		≥ 3	≥ 3					
Contact material	Ag	Ag	Ag	Ag	Ag	Ag	Ag		Ag	Ag					
EN 60335 cap. 30 conform "G"				•									•	•	•
Miscellaneous					lower lying flange		lower lying flange		external lamp connection two-pole size					housing with 2 separating gates	housing with 2 separating gates
Stock version		•	•								•	•			

SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

single-pole 		1831.3815	1831.3933	1831.8112	1832.3508	1831.3311	1831.1107	Normally open contact (SPNO)	1831.1202	1831.3402	1831.8202	1831.1253	Changeover switch (SPDT)	1833.3312	1833.1102	1833.3307	1833.7102
ON / OFF switch (SPST)																	
Lighting voltage in 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 125 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 in mm																	
Contact material																	
EN 60335 cap. 30 conform "G"																	
Miscellaneous																	
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

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)		
Lighting voltage in V		1838.0305	1838.3901	1838.1402	1838.1502	1838.1509	1838.1602	1838.4307	1838.8302	1838.3402	1838.3502			
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 125 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	4.8	4.8	4.8	4.8	2.8	6.3	6.3	6.3	4.8		
Contact distance in mm		≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3		
Contact material		Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag		
EN 60335 cap. 30 conform "G"														
Miscellaneous		momentary function both sides	1E6 mechanical life endurance IP 67	momentary function both sides			momentary function one side	momentary function one side	momentary function both sides lower lying flange	momentary function both sides		lower lying flange		
Stock version				•	•		•			•				

SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

												
Lighting voltage in 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 125 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 in mm												
Contact material												
EN 60335 cap. 30 conform "G"												
Miscellaneous												
Stock version												

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SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

double-pole 		ON / OFF switch (DPST)												Normally open contact (DPNO)	
Lighting voltage in V		1832.3311	1832.3312	1832.3313	1832.3602	1832.6112	1832.7103	1832.8112	1832.9103	1832.0113	1832.1102	1832.3307	1832.9101	1832.3407	1832.8204
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 125 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	4.8		6.3			4.8	6.3		6.3	6.3
Contact distance in 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"															
Miscellaneous					cover frame 33.2 long	lower lying flange	lower lying flange	lower lying flange	lower lying flange	dust protection inlay			lower lying flange		lower lying flange
Stock version															

SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

		Changeover switch (DPDT)		1834.3311	1834.3312	1834.1102	1834.3302	1834.3309	1834.3603	1834.6103	Changeover switch with OFF position in the center (DPDT - Center OFF)		1839.3512	1839.1402	1839.1407	1839.1410	1839.1502	1839.1507	1839.1509	1839.1518
Lighting voltage in 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 125 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	4.8	6.3	6.3	6.3	4.8			6.3	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Contact distance in 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	lower lying flange				momentary function both sides	momentary function both sides	dust protection inlay momentary function both sides				dust protection inlay
Stock version							•							•	•			•		

ROCKER SWITCHES

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SENSORS

SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

double-pole 	Changeover switch with OFF position in the center (DPDT - Center OFF)									
Lighting voltage in 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 125 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	6.3		6.3		6.3
Contact distance in mm	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3	≥ 3
Contact material	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Au	Ag	Ag
EN 60335 cap. 30 conform "G"										
Miscellaneous	momentary function one side	momentary function one side	momentary function both sides			momentary function one side	dust protection inlay momentary function one side lower lying flange	cover frame 33.2 long momentary function both sides	dust protection inlay	
Stock version										
Changeover switch (DPDT momentary)										

SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

		Lamp	1837.118	1837.2504	1837.3102	1837.8102	1837.8108
Lighting voltage in V			230	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 125 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 in mm							
Contact material							
EN 60335 cap. 30 conform "G"							
Miscellaneous				lower lying flange		size basic type 1835	size basic type 1835
Stock version							

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

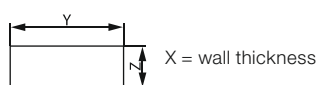
SENSORS

SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

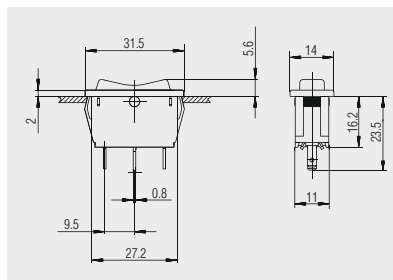
TO 20 (4) A 250 V AC



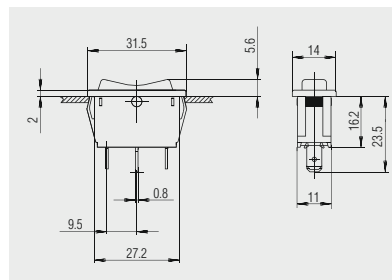
Basic types 1830, 1831, 1833
and 1838
single-pole
illuminated / non-illuminated



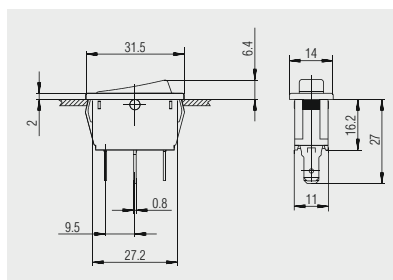
X	Y	Z
0.75 ... 1.25	30 ^{-0.1}	11 ^{+0.1}
1.25 ... 2	30.2 ^{-0.1}	11 ^{+0.1}
2 ... 3	30.6 ^{-0.1}	11 ^{+0.1}



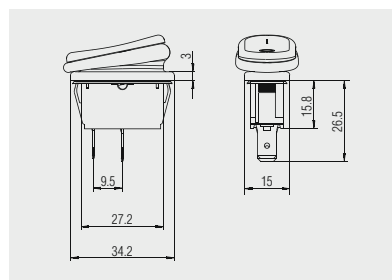
Quick-connect terminal 2.8 x 0.8
1838.4307



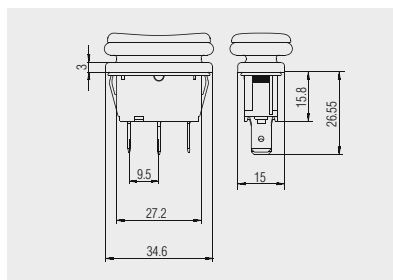
Quick-connect terminal 4.8 x 0.8
basic type 1838



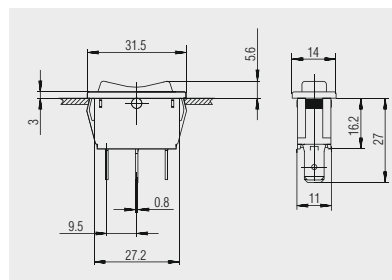
Quick-connect terminal 4.8 x 0.8
basic types 1830, 1831 and 1833



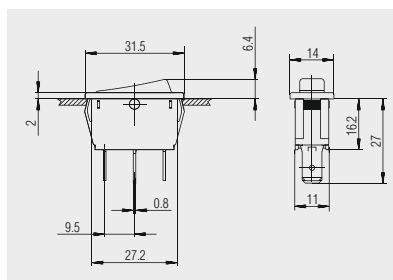
Quick-connect terminal 6.3 x 0.8
1831.3815



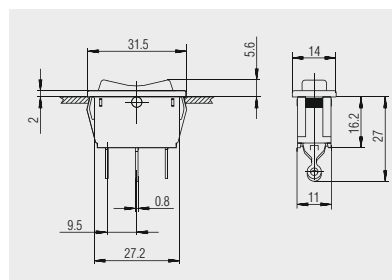
Quick-connect terminal 6.3 x 0.8
1838.3901



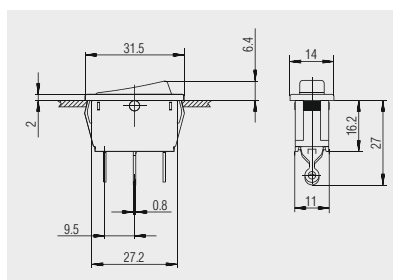
Quick-connect terminal 6.3 x 0.8
basic type 1838



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



Solder terminal
basic type 1838



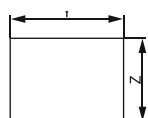
Solder terminal
basic types 1830 and 1831

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TO 20 (4) A 250 V AC

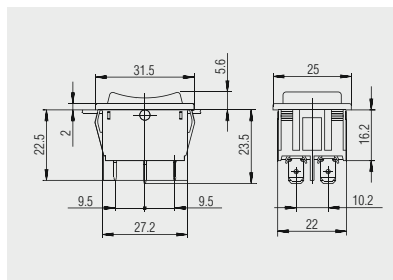


Basic types 1832, 1834, 1835
and 1839
double-pole
illuminated / non-illuminated

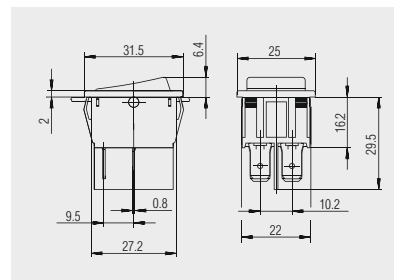


X = wall thickness

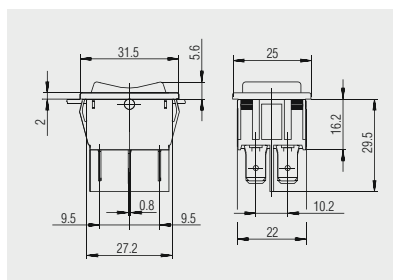
X	Y	Z
0.75 ... 1.25	30 ^{-0.1}	22 ^{+0.2}
1.25 ... 2	30.2 ^{-0.1}	22 ^{+0.2}
2 ... 3	30.6 ^{-0.1}	22 ^{+0.2}



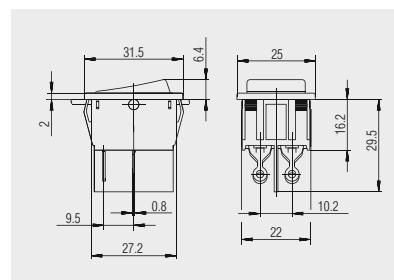
Quick-connect terminal 4.8 x 0.8



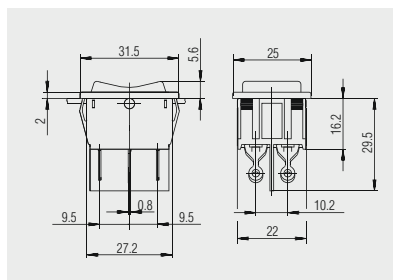
Quick-connect terminal
6.3 x 0.8 / 4.8
basic types 1832, 1834 and 1835



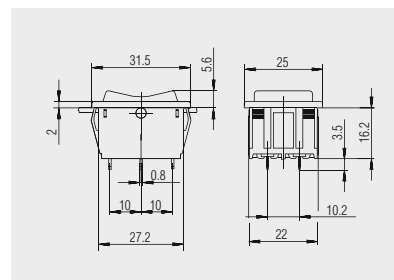
Quick-connect terminal 6.3 x 0.8
basic type 1839



Solder terminal
basic type 1832



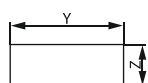
Solder terminal
basic type 1839



PCB terminal
basic type 1839

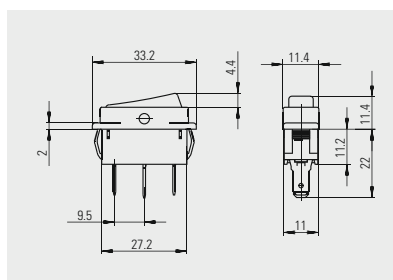


Basic types 1830, 1831 and 1833
single-pole, lower lying flange
illuminated / non-illuminated



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

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

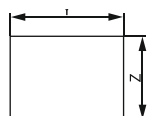
SENSORS

SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

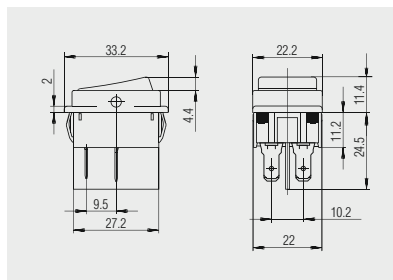


Basic types 1832, 1834, 1835 and 1839
double-pole, lower lying flange
illuminated / non-illuminated

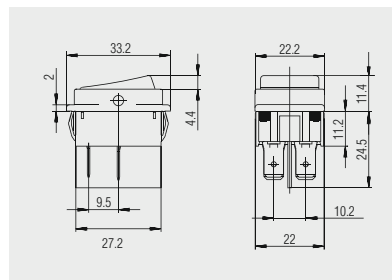


X = wall thickness

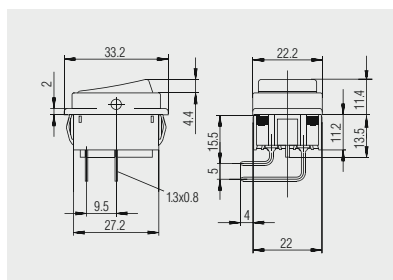
X	Y	Z
0.75 ... 1.25	30 ^{-0.1}	22 ^{+0.2}
1.25 ... 2	30.2 ^{-0.1}	22 ^{+0.2}
2 ... 3	30.6 ^{-0.1}	22 ^{+0.2}



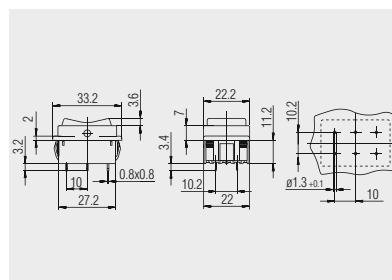
Quick-connect terminal 4.8 x 0.8
basic types 1832 and 1834



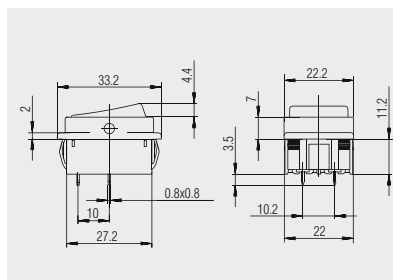
Quick-connect terminal 6.3 x 0.8
basic type 1832



PCB terminal angled
basic types 1832 and 1835



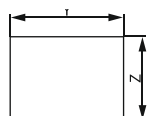
PCB terminal
basic type 1839



PCB terminal
basic types 1832 and 1835

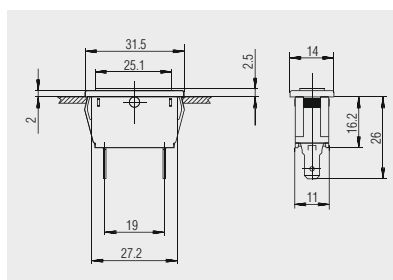


Basic type 1837 lamp
single and double-pole

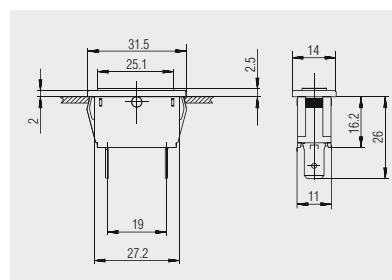


X = wall thickness

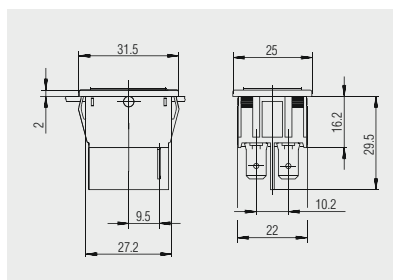
X	Y	Z
0.75 ... 1.25	30 ^{-0.1}	22 ^{+0.2}
1.25 ... 2	30.2 ^{-0.1}	22 ^{+0.2}
2 ... 3	30.6 ^{-0.1}	22 ^{+0.2}



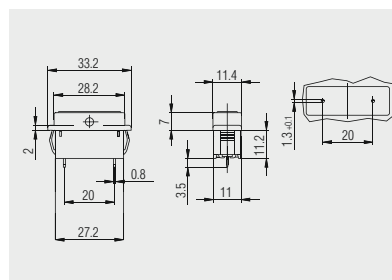
Quick-connect terminal 4.8 x 0.8
single-pole size



Quick-connect terminal 6.3 x 0.8
single-pole size



Quick-connect terminal 6.3 x 0.8
double-pole size



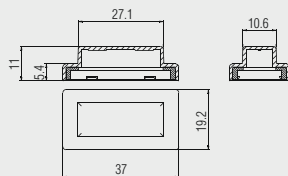
PCB terminal
lower lying flange
1837.2504

SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC



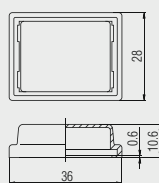
Protection ap
203.731.011



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.



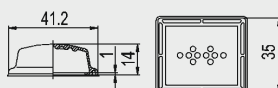
Protection cap
203.201.011



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.



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 of PA black.

Housing and dummy cap must be assembled by the customer and makes 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 of PA black.

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

ROCKER SWITCHES

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SENSORS