

# 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<br>5E4 (basic type 1839)<br>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<br>actuating side -20 °C ... +55 °C   |
| Flammability                                   | UL 94 V-2<br>UL 94 V-0  |
| Glow wire test temperature                     | 850 °C  |
| Material                                       | actuator PA / PC<br>housing PA<br>terminals silver plated / tinned  |
| 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

| <br>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 | 1831.3312 | 1831.3313 | 1831.3317 | 1831.3606                       | 1831.3607                       |
| Lighting voltage in V  | 230                    | 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                |           |                    | 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       | ≥ 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  |                        |           |           |           | lower lying flange |           | lower lying flange |                                    | external lamp connection<br>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

|  | ON / OFF switch (SPST)  |   |   |   |   |   | Normally open contact (SPNO)  |   |  |   | Changeover switch (SPDT)  |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|
|   | 1831.3815   | 1831.3933   | 1831.8112   | 1832.3508   | 1831.3311   | 1831.1107   | 1831.1202   | 1831.3402   | 1831.8202  | 1831.1253   | 1833.3312   | 1833.1102   | 1833.3307   | 1833.7102   |   |   |   |   |
| Lighting voltage in V   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |
| Actuator color / printing   |  |    |    |    |    |    |   |   |  |   |      |     |    |    |    |    |  |  |
| Housing color   | black   |   |   |   |   |   | black   |   |  |   | black   |   |   |   |   |   |   |   |
| 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   | 4.8   | 6.3   | 6.3  | 4.8   | 6.3   | 4.8   | 6.3   | 4.8   | 6.3   | 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   | Au  | Ag  | Ag  | Ag  | Ag  | Ag  | Ag  |   |   |
| EN 60335 cap. 30 conform "G"  |   |   |   |   | •   |   |   |   |  |   |   | •   |   |   |   |   |   |   |
| Miscellaneous   | 1E6 mechanical life endurance IP 67   |   | lower lying flange  | two-pole size   |   |   |   | lower lying flange  |  |   |   |   |   | lower lying flange  |   |   |   |   |
| Stock version   |   |   | •   |   | •   | •   |   | •   | •  |   |   |   |   |   |   |   |   |   |

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

FACT AND KEY SWITCHES




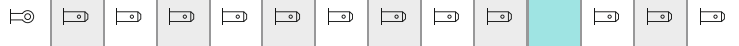
SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

# SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

|  |  | Changeover switch with OFF position in the center (SPDT - Center OFF)  |           |           |           |           |           |           |           | Changeover switch (SPDT momentary) |           |           |           |           |
|---|--|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------------------------|-----------|-----------|-----------|-----------|
|   |  | 1838.0305  | 1838.3901 | 1838.1402 | 1838.1502 | 1838.1509 | 1838.1602 | 1838.4307 | 1838.8302 | 1838.3402                          | 1838.3502 | 1833.1202 | 1833.3402 | 1833.6202 |
| 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  |  | ≥ 3  |           |           |           |           |           |           |           |                                    |           |           |           |           |
| Contact material  |  | Ag   |           |           |           |           |           |           |           |                                    |           |           |           |           |
| EN 60335 cap. 30 conform "G"  |  |  |           |           |           |           |           |           |           |                                    |           |           |           |           |
| Miscellaneous   |  | momentary function both sides<br>1E6 mechanical life endurance IP 67<br>momentary function both sides<br>momentary function one side<br>momentary function one side<br>momentary function both sides lower lying flange<br>momentary function both sides<br>lower lying flange |           |           |           |           |           |           |           |                                    |           |           |           |           |
| Stock version   |  | ●  |           |           |           |           |           |           |           |                                    |           |           |           |           |

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

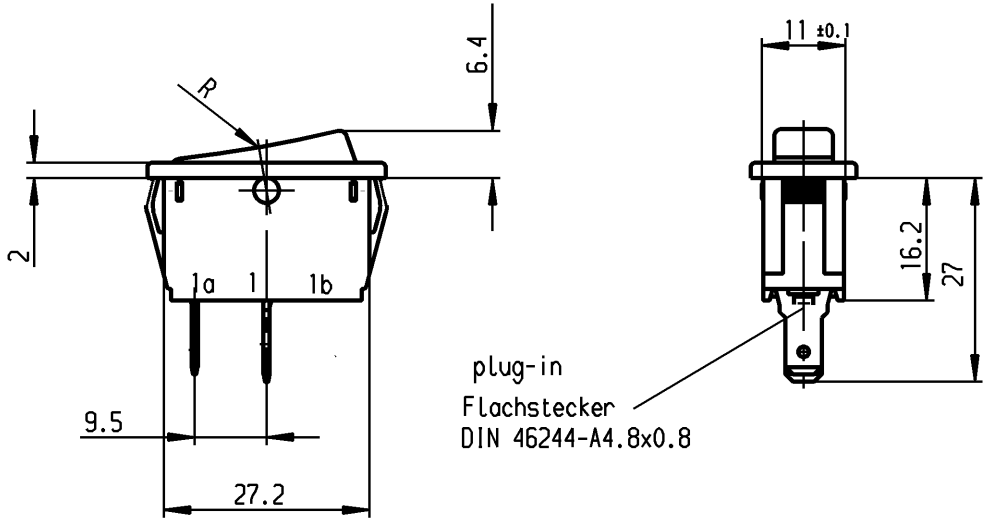
MICRO-SIGNAL SWITCHES

SENSORS

|   |                             |                                      |                                      |
|---|-----------------------------|--------------------------------------|--------------------------------------|
| 1   | 2                           | 3                                    | 4                                    |
| recommended cut-out for snap-in fixing<br>( edge opposite to snap-in direction )<br>Empfohlener Ausschnitt für Rastbefestigung<br>( Grat gegenüber Bestückungsseite ) | wall thickness<br>Wanddicke | length of cut-out<br>Ausschnittlänge | width of cut-out<br>Ausschnittbreite |
|   | 0.75 to / bis 1.25          | 30 -0.1                              | 11 +0.1                              |
|   | 1.25 to / bis 2             | 30.2 -0.1                            | 11 +0.1                              |
|   | 2 to / bis 3                | 30.6 -0.1                            | 11 +0.1                              |

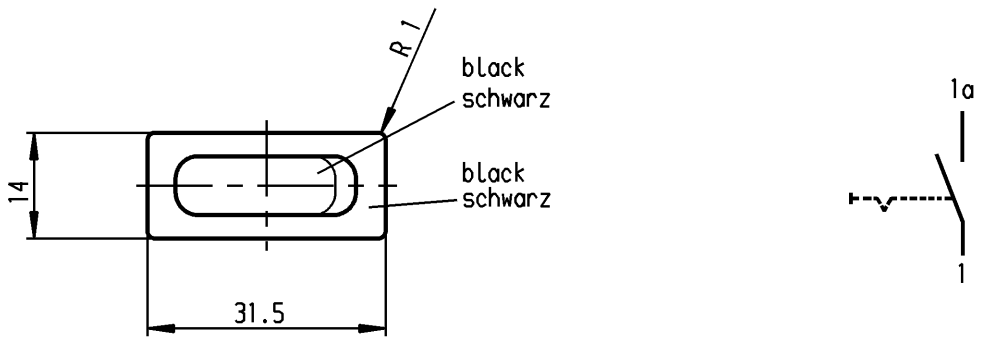
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B



C

D



Marking  
Aufschrift

Ⓜ  
1831.  
6(4)/250 ~ 5E4  
10(4)/250 ~ T105/55  
  
6A 125-250V AC  
1/4HP125VAC  
1/2HP250VAC  
R30

SPST  
suitable for appliances of class II


Ausschalter 1-polig  
Für Geräte der Klasse II geeignet

Schutzvermerk nach DIN 34 beachten  
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|  |                   |   |                          |              |                      |               |  |                   |                                    |
|--|-------------------|---|--------------------------|--------------|----------------------|---------------|--|-------------------|------------------------------------|
| Allgemeintoleranzen/UNTOLERANCED DIMENSIONS  |                   |   |                          | PROJECTION   |                      | Pause COPY    | Blatt SHEET  |                   | Zeichn./DRAWING NO.<br>K 1831.1102 |
| Für Längen und Radien FOR LENGTHS AND RADII. |                   | Abmaße in mm für Nennmaßbereich in mm ALL DIMENSIONS ARE IN MILLIMETRES |                          |              | Für Winkel FOR ANGLE |               | Original DIN A4  | Maßstab SCALE 1:1 |                                    |
| ±  |                   | bis/UP TO 6   | über/OVER 6 bis/UP TO 30 | über/OVER 30 | ± 2°                 |               | 0 10 20 30 mm  |                   |                                    |
| d  |                   |   |                          | i            |                      |               | gez./DRAWN BY 23.01.96 grh                             |                   |                                    |
| c  |                   |   |                          | h            |                      |               | gepr./CHECKED BY Kiz                                   |                   |                                    |
| b  | 47099             | 10.04.06  | hhe                      | g            |                      |               | Ersatz für/REPLACEMENT OF Zeichn. gl.Nr. vom 21.06.85  |                   |                                    |
| a  | 23781             | 23.01.96  | grh                      | f            |                      |               |  |                   |                                    |
|  |                   |   |                          | e            |                      |               |  |                   |                                    |
| Ausg. ISSUE                                  | Anderung REVISION | gez. DRAWN BY   |                          | Ausg. ISSUE  | Anderung REVISION    | gez. DRAWN BY | MARQUARDT<br>Marquardt GmbH, D-78604 Rietheim-Weilheim |                   |                                    |

# SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES


TO 20 (4) A 250 V AC

| <br>double-pole | ON / OFF switch (DPST) |           |           |           |           |   |           |           | Changeover switch (DPDT) |                    | ON / OFF switch (DPST) |           |           |                       |
|--|------------------------|-----------|-----------|-----------|-----------|---|-----------|-----------|--------------------------|--------------------|------------------------|-----------|-----------|-----------------------|
|  | 1835.3419              | 1835.3111 | 1835.3112 | 1835.3114 | 1835.3118 | 1835.9413   | 1835.3102 | 1835.3105 | 1835.3108                | 1835.7108          | 1835.3802              | 1835.3116 | 1835.3107 | 1832.1612             |
| Lighting voltage in V  | 400                    | 230       | 230       | 230       | 230       | 230   | 230       | 230       | 230                      | 230                | 230                    | 115-230   | 12        |                       |
| Actuator color / printing  |                        |           |           |           |           |   |           |           |                          |                    |                        |           |           |                       |
| Housing color  | Black                  | White     | Black     | Black     | Black     | Black   | Black     | Black     | Black                    | Black              | Black                  | Black     | Black     | Black                 |
| 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       | 6.3       | 6.3                      |                    | 6.3                    | 6.3       | 6.3       | 4.8                   |
| 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  |           |           |           |           | PCB holder 248.103.011 mounted lower lying flange |           |           |                          | lower lying flange |                        |           |           | cover frame 33.2 long |
| Stock version  |                        |           | •         | •         | •         |   | •         | •         | •                        |                    |                        |           |           |                       |

ROCKER SWITCHES  
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SNAP-ACTION SWITCHES  
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SENSORS

# SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

|  |  | ON / OFF switch (DPST) | 1832.3311 | 1832.3312 | 1832.3313 | 1832.3602             | 1832.6112          | 1832.7103          | 1832.8112          | 1832.9103          | 1832.0113             | 1832.1102 | 1832.3307          | 1832.9101 | Normally open contact (DPNO) | 1832.3407 | 1832.8204          |
|---|--|------------------------|-----------|-----------|-----------|-----------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|-----------|--------------------|-----------|------------------------------|-----------|--------------------|
| 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       | 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   |  |                        | •         | •         |           | •                     |                    |                    |                    |                    |                       | •         | •                  |           |                              |           |                    |

ROCKER SWITCHES

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SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

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# SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC


|  |  | Changeover switch (DPDT) |           |           |           |           |                       | Changeover switch with OFF position in the center (DPDT - Center OFF) |           |                               |                               |  |           |           |           |                       |
|---|--|--------------------------|-----------|-----------|-----------|-----------|-----------------------|---|-----------|-------------------------------|-------------------------------|--|-----------|-----------|-----------|-----------------------|
|   |  | 1834.3311                | 1834.3312 | 1834.1102 | 1834.3302 | 1834.3309 | 1834.3603             | 1834.6103   | 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<br>momentary function both sides |           |           |           | dust protection inlay |
| Stock version   |  |                          |           |           | •         |           |                       |   |           | •                             | •                             |  |           | •         |           |                       |

ROCKER SWITCHES  
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# SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC

|  |  | 1839.1602                   | 1839.2203                   | 1839.3402                     | 1839.3502 | 1839.3503 | 1839.3602                   | 1839.7304  | 1839.3352  | 1839.0105             | 1834.3402 |
|---|--|-----------------------------|-----------------------------|-------------------------------|-----------|-----------|-----------------------------|--|--|-----------------------|-----------|
| 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<br>momentary function one side<br>lower lying flange | cover frame 33.2 long<br>momentary function both sides | dust protection inlay |           |
| Stock version   |  |                             |                             | ●                             |           |           |                             |  |  |                       |           |

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

FACT 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

| Lamp  | 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

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SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

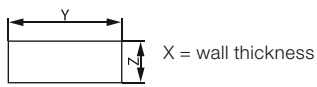
SENSORS

# SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

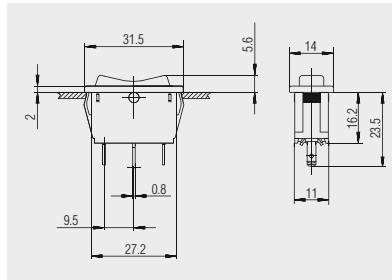
TO 20 (4) A 250 V AC



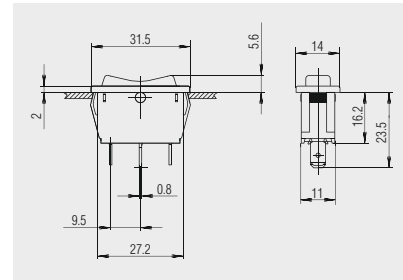
Basic types 1830, 1831, 1833 and 1838 single-pole illuminated / non-illuminated



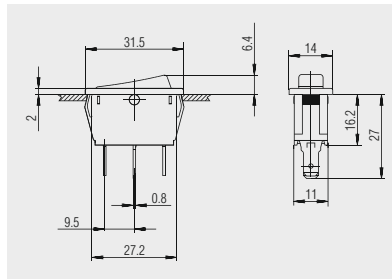
| X             | Y                    | Z                  |
|---------------|----------------------|--------------------|
| 0.75 ... 1.25 | 30 <sup>-0.1</sup>   | 11 <sup>+0.1</sup> |
| 1.25 ... 2    | 30.2 <sup>-0.1</sup> | 11 <sup>+0.1</sup> |
| 2 ... 3       | 30.6 <sup>-0.1</sup> | 11 <sup>+0.1</sup> |



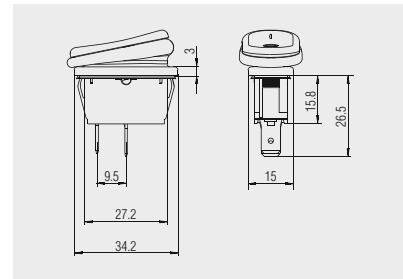
Quick-connect terminal 2.8 x 0.8  
1838.4307



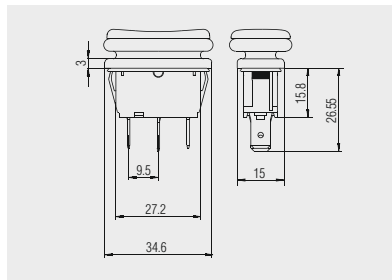
Quick-connect terminal 4.8 x 0.8  
basic type 1838



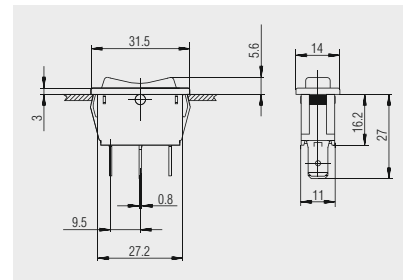
Quick-connect terminal 4.8 x 0.8  
basic types 1830, 1831 and 1833



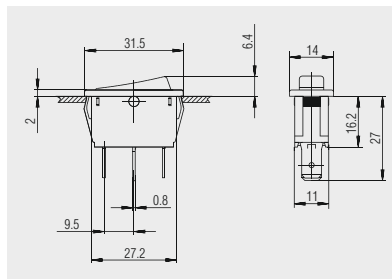
Quick-connect terminal 6.3 x 0.8  
1831.3815



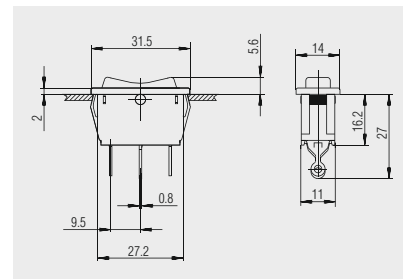
Quick-connect terminal 6.3 x 0.8  
1838.3901



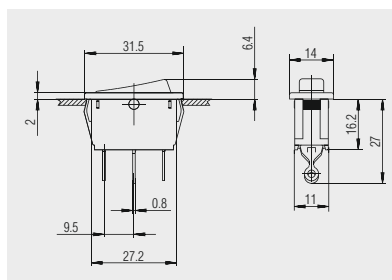
Quick-connect terminal 6.3 x 0.8  
basic type 1838



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



Solder terminal  
basic type 1838



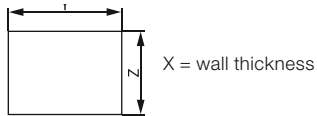
Solder terminal  
basic types 1830 and 1831

# SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

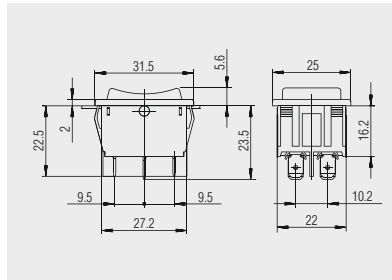
TO 20 (4) A 250 V AC



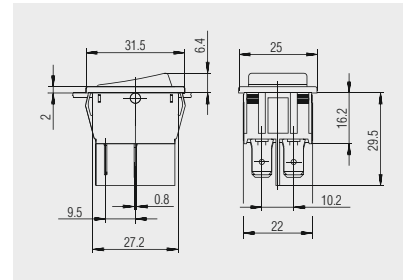
Basic types 1832, 1834, 1835 and 1839  
double-pole  
illuminated / non-illuminated



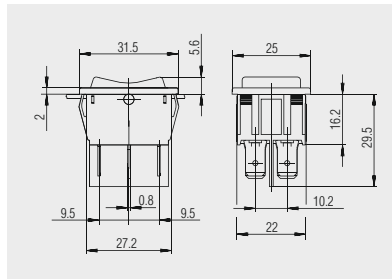
| X             | Y                    | Z                  |
|---------------|----------------------|--------------------|
| 0.75 ... 1.25 | 30 <sup>-0.1</sup>   | 22 <sup>+0.2</sup> |
| 1.25 ... 2    | 30.2 <sup>-0.1</sup> | 22 <sup>+0.2</sup> |
| 2 ... 3       | 30.6 <sup>-0.1</sup> | 22 <sup>+0.2</sup> |



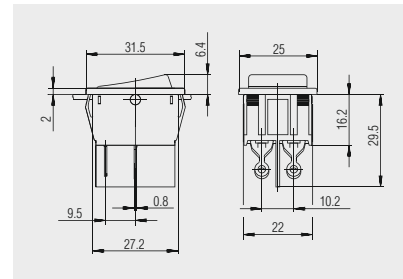
Quick-connect terminal 4.8 x 0.8



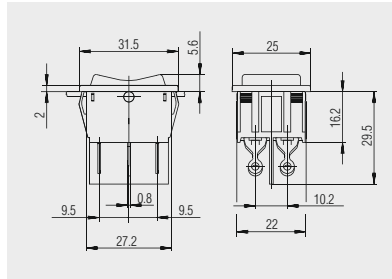
Quick-connect terminal 6.3 x 0.8 / 4.8  
basic types 1832, 1834 and 1835



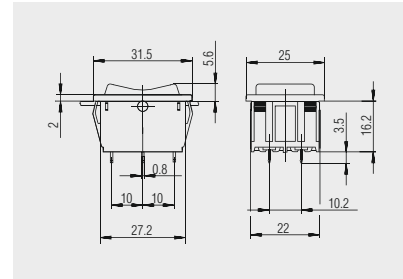
Quick-connect terminal 6.3 x 0.8  
basic type 1839



Solder terminal  
basic type 1832



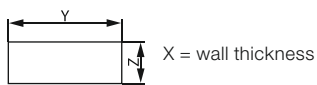
Solder terminal  
basic type 1839



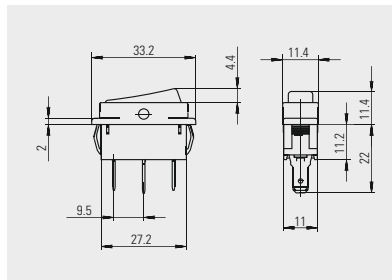
PCB terminal  
basic type 1839



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



| X             | Y                    | Z                  |
|---------------|----------------------|--------------------|
| 0.75 ... 1.25 | 30 <sup>-0.1</sup>   | 11 <sup>+0.1</sup> |
| 1.25 ... 2    | 30.2 <sup>-0.1</sup> | 11 <sup>+0.1</sup> |
| 2 ... 3       | 30.6 <sup>-0.1</sup> | 11 <sup>+0.1</sup> |



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

FACT 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

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

FACT AND KEY SWITCHES

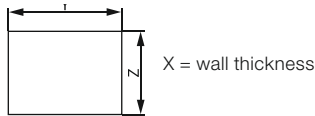
SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

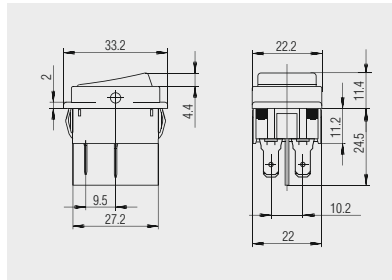
SENSORS



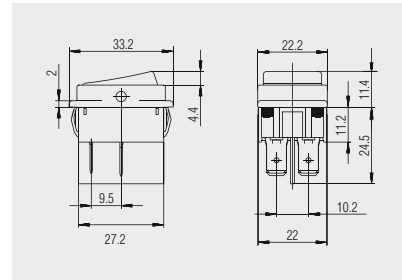
Basic types 1832, 1834, 1835 and 1839  
double-pole, lower lying flange illuminated / non-illuminated



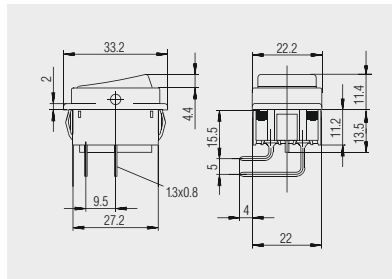
| X             | Y                    | Z                  |
|---------------|----------------------|--------------------|
| 0.75 ... 1.25 | 30 <sup>-0.1</sup>   | 22 <sup>+0.2</sup> |
| 1.25 ... 2    | 30.2 <sup>-0.1</sup> | 22 <sup>+0.2</sup> |
| 2 ... 3       | 30.6 <sup>-0.1</sup> | 22 <sup>+0.2</sup> |



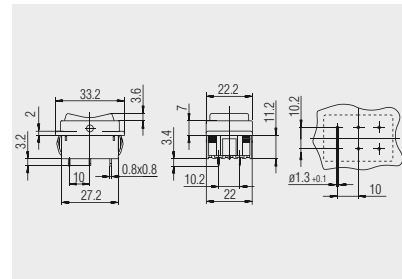
Quick-connect terminal 4.8 x 0.8  
basic types 1832 and 1834



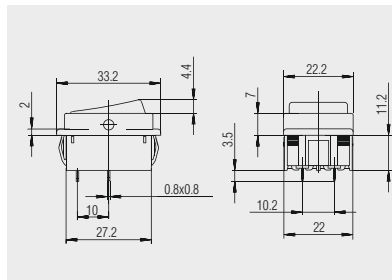
Quick-connect terminal 6.3 x 0.8  
basic type 1832



PCB terminal angled  
basic types 1832 and 1835



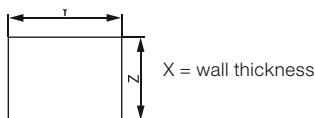
PCB terminal  
basic type 1839



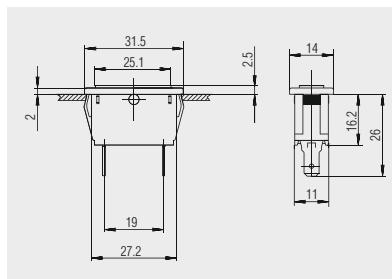
PCB terminal  
basic types 1832 and 1835



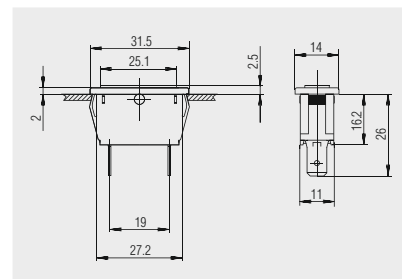
Basic type 1837 lamp  
single and double-pole



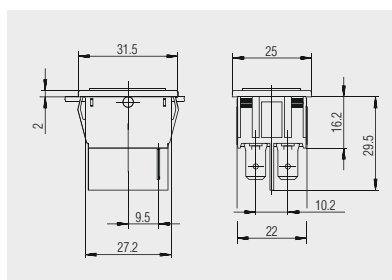
| X             | Y                    | Z                  |
|---------------|----------------------|--------------------|
| 0.75 ... 1.25 | 30 <sup>-0.1</sup>   | 22 <sup>+0.2</sup> |
| 1.25 ... 2    | 30.2 <sup>-0.1</sup> | 22 <sup>+0.2</sup> |
| 2 ... 3       | 30.6 <sup>-0.1</sup> | 22 <sup>+0.2</sup> |



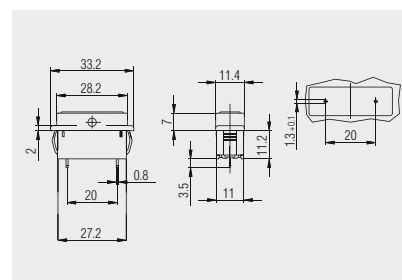
Quick-connect terminal 4.8 x 0.8  
single-pole size



Quick-connect terminal 6.3 x 0.8  
single-pole size



Quick-connect terminal 6.3 x 0.8  
double-pole size



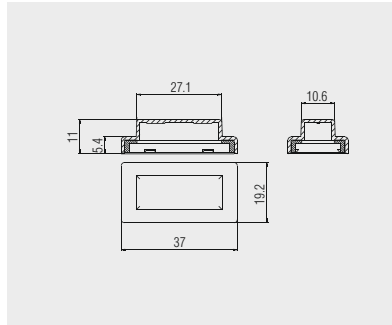
PCB terminal  
lower lying flange  
1837.2504

# SERIES 1830 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES

TO 20 (4) A 250 V AC



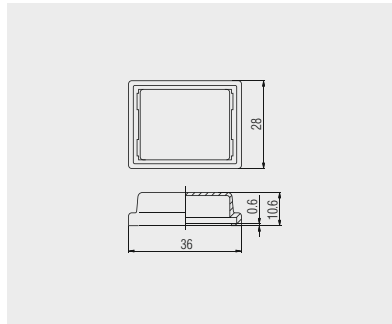
Protection ap  
203.731.011



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.



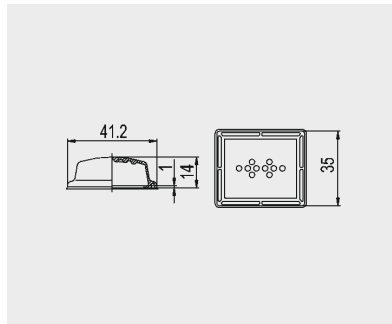
Protection cap  
203.201.011



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

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES







FACT AND KEY SWITCHES

SNAP-ACTION SWITCHES














MICRO-SIGNAL SWITCHES

SENSORS

















## APPROVAL MARKS

|  |                |   |                    |
|--|----------------|---|--------------------|
|   | ENEC 05 (KEMA) |   | UL (USA)           |
|  | ENEC 10 (VDE)  |  | UL (USA + Canada)  |
|  | VDE            |  | CSA (Canada)       |
|  |                |  | CSA (Canada + USA) |

## TERMINAL SYMBOLS

|  |                              |   |                  |
|--|------------------------------|---|------------------|
|  | Quick-connect terminal       |  | Cable            |
|  | Solder terminal              |  | Terminal strip   |
|  | Short solder terminal        |  | Push-in terminal |
|  | PCB terminal                 |  | Snap-in terminal |
|  | PCB terminal angled to left  |  | Cut terminal     |
|  | PCB terminal angled to right |  | Screw terminal   |
|  | Socket terminal              |   |                  |

## ACTUATOR SYMBOLS

|  |                                     |   |   |
|--|-------------------------------------|---|---|
|   | Straight lever                      |   | Lever simulated roller with adjusting screw |
|  | Lever simulated roller              |  | Lever with adjusting screw and roller       |
|  | Lever with roller                   |  | Lever with cams                             |
|  | Differential lever                  |  | Housing cams                                |
|  | Spring lever                        |  | Pushbutton                                  |
|  | Spring lever bent                   |  | Rotary shaft                                |
|  | Spring lever with molded spring cam |  | Standard actuator                           |
|  | Lever with adjusting screw          |  | Mushroom-shaped actuator                    |

## ABBREVIATIONS TECHNICAL DRAWINGS

|                  |                                       |              |  |
|------------------|---------------------------------------|--------------|--|
| <b>ad</b>        | Adjustable                            | <b>OP</b>    | Operating position                         |
| <b>AN</b>        | Anode                                 | <b>OP NC</b> | Operating position normally closed contact |
| <b>BL</b>        | Block                                 | <b>OP NO</b> | Operating position normally open contact   |
| <b>FH</b>        | Fixing hole, locating hole fixing pin | <b>OR</b>    | On request                                 |
| <b>FI</b>        | Fields for function indicator         | <b>RC</b>    | Recommended cut-out                        |
| <b>FP</b>        | Free position                         | <b>RL</b>    | Reference level                            |
| <b>FX</b>        | Fixing pin                            | <b>SH</b>    | Snap-in hole                               |
| <b>ju</b>        | Adjusted                              | <b>SL</b>    | Symbol limit                               |
| <b>MC</b>        | Marking cathode                       | <b>SP</b>    | Solder pads                                |
| <b>MF</b>        | Mounting frame                        | <b>ST</b>    | Slide travel                               |
| <b>MP</b>        | Measuring point                       | <b>SW</b>    | Switching position                         |
| <b>OFF</b>       | Off                                   | <b>TH</b>    | Terminal hole                              |
| <b>off-range</b> | Zero position                         | <b>tk</b>    | Thick                                      |
| <b>OG</b>        | Operating range                       | <b>to</b>    | Top  |
| <b>ON</b>        | On                                    | <b>TP</b>    | Total travel position                      |

## SWITCHING FREQUENCY (ABBREVIATIONS)

e.g. 5E4 switching cycles  $\hat{=}$  50 000 switching cycles