

SERIES 1858 - SMALLEST DOUBLE-POLE ROCKER SWITCHES

TO 12 (4) A 250 V AC






PRODUCT FEATURES

- ◆ Non-illuminated rocker switch
- ◆ Powerful with inrush currents (capacitive) up to 100 A
- ◆ Immediately self-extinguishing due to UL 94 V-0 material
- ◆ Conformant acc. to EN 60065 par. 14.6

ON REQUEST




























- ◆ Other colors
- ◆ Other printing variants
- ◆ Single-pole assembled
- ◆ Cable assembly

| | |
|--|---|
| Mechanical life endurance | 10E4 |
| Operating force | ≤ 5 N |
| Inrush current (capacitive) | 100 A |
| Contact resistance (new condition) | < 100 mOhm (1 A 12 V DC) |
| Insulation resistance (new condition) | > 100 MOhm (500 V DC) |
| Voltage strength at 250 V | 1 500 V function insulation / basic insulation 3 000 V reinforced insulation 500 V small contact distance |
| Proof tracking | 250 PTI |
| Insulation spacing | acc. to EN 61058 for reinforced or double insulation |
| Protection type | IP 40 |
| Ambient temperature | connection side -20 °C ... +100 °C actuating side -20 °C ... +55 °C |
| Flammability | UL 94 V-0 UL 94 V-2 (in the versions in white) |
| Heat and fire resistance | 850 °C (category D) |
| Material | actuator PA housing PA connections silver-plated |
| Plug force of the terminals | ≤ 80 N |
| Approval marks |  /  /  |
| Suitable for appliances of protection class II | |



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TO 12 (4) A 250 V AC

|  | Actuator color / printing | Housing color | 10 (4) A 250 V AC 1E4 | 6 (4) A 250 V AC 5E4 | 12 A 250 V AC 1/2 HP | 12 A 125 V AC 1/3 HP | Connection type | Connection description | Contact distance in mm | Contact material | EN 60335 cap. 30 conform "G" | Miscellaneous | Stock version |
|---|---|---------------|-----------------------|----------------------|----------------------|----------------------|---|------------------------|------------------------|------------------|------------------------------|-----------------------|---------------|
| ON/OFF switch (DPST) | | | | | | | | | | | | | |
| 1858.0103 |  | | • | • | • | • |  | | ≥ 3 | Ag | • | | • |
| 1858.0104 |  | | • | • | • | • |  | | ≥ 3 | Ag | • | | • |
| 1858.1102 |  | | • | • | • | • |  | 4.8 | ≥ 3 | Ag | • | | • |
| 1858.1103 |  | | • | • | • | • |  | 4.8 | ≥ 3 | Ag | • | | • |
| 1858.1104 |  | | • | • | • | • |  | 4.8 | ≥ 3 | Ag | • | | • |
| 1858.1105 |  | | • | • | • | • |  | 4.8 | ≥ 3 | Ag | | connection spacing 10 | |
| 1858.2202 |  | | • | • | • | • |  | | ≥ 3 | Ag | • | | • |
| 1858.2204 |  | | • | • | • | • |  | | ≥ 3 | Ag | • | | • |
| 1858.4202 |  | | • | • | • | • |  | | ≥ 3 | Ag | • | | • |
| 1858.4205 |  | | • | • | • | • |  | | ≥ 3 | Ag | • | | • |
| 1858.5104 |  | | • | • | • | • |  | | ≥ 3 | Ag | • | single-pole occupied | |
| 1858.7204 |  | | • | • | • | • |  | | ≥ 3 | Ag | • | single-pole occupied | |
| 1858.9202 |  | | • | • | • | • |  | | ≥ 3 | Ag | • | single-pole occupied | |

Further information under

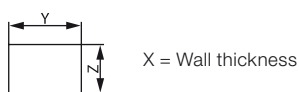
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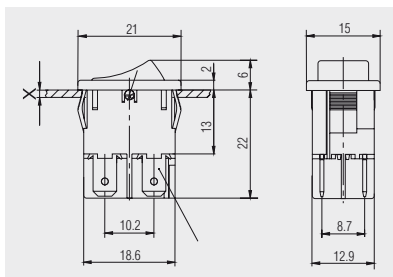
T0 12 (4) A 250 V AC



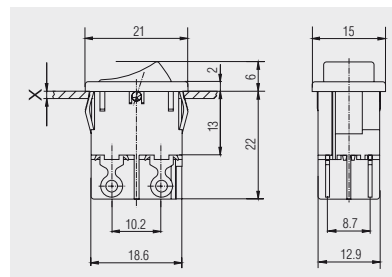
Basic type 1858 double-pole



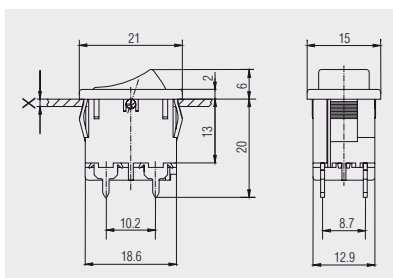
| X | Y | Z |
|---------------|----------------------|----------------------|
| 0.75 ... 1.25 | 19.2 ^{-0.1} | 12.9 ^{+0.1} |
| 1.25 ... 2 | 19.4 ^{-0.1} | 12.9 ^{+0.1} |
| 2 ... 3 | 19.8 ^{-0.1} | 12.9 ^{+0.1} |



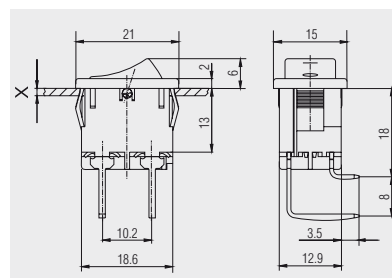
Quick-connect terminal 4.8



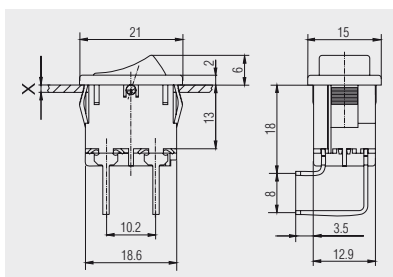
Solder terminal



PCB terminal



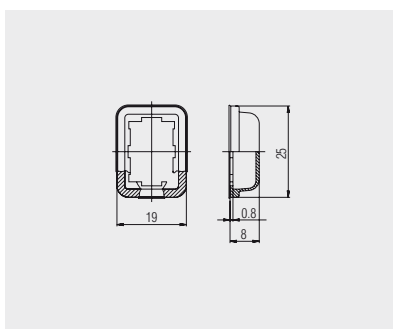
PCB terminal angled to terminal side 1



PCB terminal angled to terminal side 2










Protection cap
203.089.011
















Transparent PVC-protection cap.
Serves as dust and water protection
of the actuation side.

















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

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

SWITCHING FREQUENCY (ABBREVIATIONS)

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