SERIES 1830 – SINGLE POLE ROCKER SWITCH

DUST AND WATER PROTECTION IP 67



ADVANTAGE

Suitable for harsh environment

High endurance

Attractive, flexible design

Wide rating range

PRODUCT FEATURES

- → With bellows seal, protected against dust and water IP 67
- → 1 million switching cycles, switching concept with low-friction contact system, tried and tested 100 million times
- → Oval rocker with silk-matt surface, available in different colors and with various prints (also customer-specific)

From low DC signal currents to ratings of 16 A 250 V AC 1/2 HP and signal voltage

EXAMPLES OF APPLICATION

- → Recreational vehicles
- Cleaning equipment
- Canteen kitchen and catering technology
- → Power tools
- → Laboratory equipment
- Illumination
- Garden technology

Maximum Rating → Europe → America	16 (4) A 250 V AC 1E4 16 A 125 V AC 1/3 HP 16 A 250 V AC 1/2 HP	
Inrush peak current (capacitive)	120 A	
Mechanical life → ON/OFF, changeover switch → Changeover switch with OFF position in the center	1E5 (1E6 on request) 1E6	
Contact resistance (new condition)	< 100 mOhm (12 V, 1 A DC)	
Insulation resistance (new condition)	> 100 MOhm (500 V DC between open contacts)	
Creep resistance (Proof Tracking Index)	PTI 250	
Insulation distance	≥ 8 mm	
Protection type	IP 67	
Ambient temperature → Terminal side → Terminal actuator side	-20 °C +105 °C (no dew) -20 °C + 55 °C (no dew)	
Flammability	UL 94 V-2	
Glow wire test temperature	850 °C	
Material Housing Material Rocker Material Bellows	PA 6.6 PA 6.6 EPDM	
Plug force of the terminals	≤ 80 N	
Approval marks	€ 9 1	
Suitable for appliances of protection class II		

VARIANTS

Basic type	Switching function	Terminal type	Miscellaneous
1831	ON/OFF (SPST)	Quick-connect terminal 6.3	Shape and color of rocker on request
1833	Changeover switch (SPDT)	Quick-connect Terminal 48	Momentary versions not available
1838	Changeover switch with OFF position in the center (SPDT - center off)		Gold version for signal currents

DRAWINGS

(Dimensions in mm)

Cut cut		
Cut-out Device wall thickness	v	z
0.75 – 1.25	30.0 ^{-0.1}	11 mm ^{+0.2}
1.25 – 2.00	30.2 -0.1	11 mm ^{+0.2}
2.00 – 3.00	30.6 -0.1	11 mm ^{+0.2}



