

SERIES 1930 - DOUBLE-POLE ROCKER SWITCHES IP 65

TO 20 (4) A 250 V AC





PRODUCT FEATURES

- ◆ Illuminated and non-illuminated variants with various switching functions
- ◆ IP 65 with integrated gasket for high dust and water protection
- ◆ Inrush currents (capacitive) up to 120 A
- ◆ Approval for 400 V
- ◆ 100 million times proven switching principle
- ◆ Modern rocker design
- ◆ High, flexible variety

ON REQUEST


- ◆ Other connection types
- ◆ Other colors
- ◆ Other printing variants
- ◆ Other lamp variants
- ◆ With V-0 material
- ◆ Cable assembly

Mechanical life endurance	5E4
Operating force	3 - 8 N
Inrush current (capacitive)	120 A 100 A (basic types 1934 and 1939)
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 65 (recessed installation)
Ambient temperature	connection side -20 °C ... +105 °C actuating side -20 °C ... +55 °C
Flammability	UL 94 V-2 and UL 94 V-0 (product-dependent)
Heat and fire resistance	850 °C (category D)
Material	actuator hard components of PC / soft components of TPE (bellows) 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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 double-pole	ON/OFF switch (DPST)								Normally open contact (DPNO)							
	1935.3135	1935.3137	1935.3112	1935.3113	1935.3114	1935.3118	1935.3119	1935.3129	1935.3218	1935.3134	1935.3128	1935.3131	1935.3133	1932.1112		
Voltage lamp in V	400	400	250	250	250	250	250	250	250	125 -250	125	125	24			
Actuator color / printing																
Housing color	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black		
20 (4) A 250 V AC 1E4	•	•	•	•	•	•	•	•		•	•	•		•		
12 (4) A 250 V AC 1E4																
10 (8) A 400 V AC 5E4	•	•														
10 (8) A 250 V AC 5E4	•	•	•	•	•	•	•	•		•	•	•		•		
10 A 24 V DC													•			
6 (4) A 250 V AC 5E4																
16 A 250 V AC 1 HP	•	•	•	•	•	•	•	•		•	•	•		•		
16 A 125 V AC 3/4 HP	•	•	•	•	•	•	•	•		•	•	•		•		
16 A 125 V AC 1/3 HP												•				
15 A 125 V AC 3/4 HP																
14 A 250 V AC 1 HP																
14 A 250 V AC 3/4 HP																
14 A 250 V AC 1/2 HP																
14 A 125 V AC 1/3 HP																
14 A 125 V AC 1/4 HP																
12 A 250 V AC 1 HP																
12 A 125 V AC 1/2 HP																
Connection type																
Connection description	6.3	6.3	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		
Miscellaneous							bellows anthracite									
Stock version			•	•	•	•					•					

ROCKER SWITCHES
PUSHBUTTON SWITCHES
TOGGLE SWITCHES
SLIDE SWITCHES
ROTARY SWITCHES
FOOT SWITCHES
POWER TOOL SWITCHES
TACT AND KEY SWITCHES
SNAP-ACTION SWITCHES
MICRO-SIGNAL SWITCHES
SENSORS






















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		1932.1113	1932.1114	1932.3112	1932.3113	1932.3114	1932.3118	1932.3412	1932.3418	1932.3312	1932.3413	1934.3112	1934.3113	1934.3114
		ON/OFF switch (DPST)								Normally closed contact (DPNC)	Normally open contact (DPNO)	Switch (DPDT)		
Voltage lamp in V														
Actuator color / printing														
Housing color														
20 (4) A 250 V AC 1E4		•	•	•	•	•	•	•	•					
12 (4) A 250 V AC 1E4														
10 (8) A 400 V AC 5E4														
10 (8) A 250 V AC 5E4		•	•	•	•	•	•	•	•			•	•	•
10 A 24 V DC														
6 (4) A 250 V AC 5E4														
16 A 250 V AC 1 HP		•	•	•	•	•	•	•	•					
16 A 125 V AC 3/4 HP		•	•	•	•	•	•	•	•					
16 A 125 V AC 1/3 HP														
15 A 125 V AC 3/4 HP									•					
14 A 250 V AC 1 HP														
14 A 250 V AC 3/4 HP														
14 A 250 V AC 1/2 HP														
14 A 125 V AC 1/3 HP														
14 A 125 V AC 1/4 HP														
12 A 250 V AC 1 HP												•	•	•
12 A 125 V AC 1/2 HP												•	•	•
Connection type														
Connection description		4.8	4.8	6.3	6.3	6.3	6.3	6.3	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
Contact material		Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag
Miscellaneous								single-pole occupied	single-pole occupied					
Stock version				•							•			

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		Switch (DPDT)	1934.2114	Switch with OFF position in the center (DPDT - Center OFF)	1939.3119	1939.3312	1939.3314	1939.3318	1939.0454	Changeover switch (DPDT momentary)	1934.3213
Voltage lamp in V											
Actuator color / printing											
Housing color											
20 (4) A 250 V AC 1E4											
12 (4) A 250 V AC 1E4					●	●	●	●			
10 (8) A 400 V AC 5E4											
10 (8) A 250 V AC 5E4											
10 A 24 V DC											
6 (4) A 250 V AC 5E4			●								
16 A 250 V AC 1 HP											
16 A 125 V AC 3/4 HP											
16 A 125 V AC 1/3 HP											
15 A 125 V AC 3/4 HP											
14 A 250 V AC 1 HP											●
14 A 250 V AC 3/4 HP					●						
14 A 250 V AC 1/2 HP						●	●	●			
14 A 125 V AC 1/3 HP					●						●
14 A 125 V AC 1/4 HP						●	●	●			
12 A 250 V AC 1 HP			●								
12 A 125 V AC 1/2 HP			●								
Connection type											
Connection description					6.3	6.3	6.3	6.3			6.3
Contact distance in mm		≥ 3			≥ 3	< 3	< 3	< 3	< 3		≥ 3
Contact material		Ag			Ag	Ag	Ag	Ag	Au		Ag
Miscellaneous						momentary function both sides	momentary function both sides	momentary function both sides	single-pole occupied momentary function both sides		
Stock version					●	●					

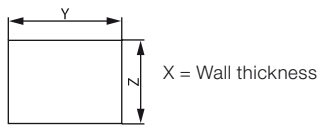
ROCKER SWITCHES
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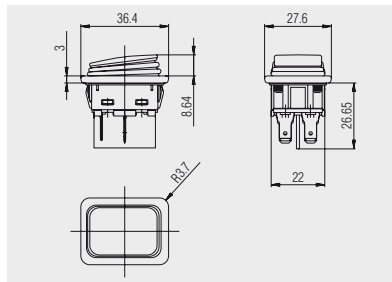
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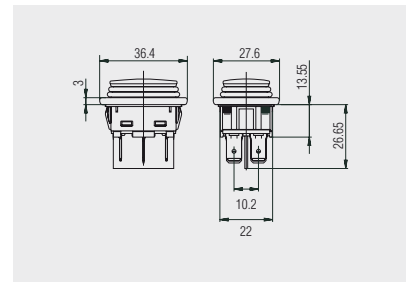
Basic types 1932, 1934, 1935 and 1939 double-pole



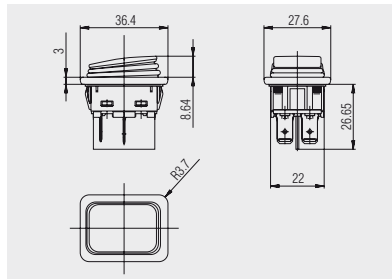
X	Y	Z
0.75 ... 1.25	30 ^{-0.1}	22 ^{+0.2}
1.25 ... 3.0	30.2 ^{-0.1}	22 ^{+0.2}



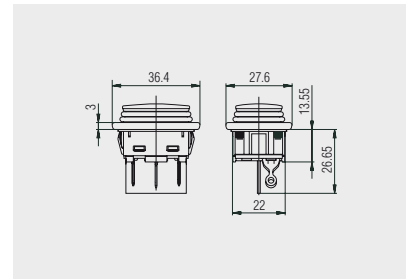
Quick-connect terminal 4.8 basic type 1932



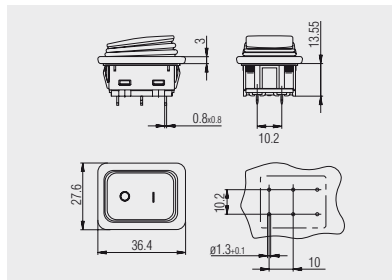
Quick-connect terminal 6.3 basic type 1939



Quick-connect terminal 6.3 basic types 1932, 1934 and 1935



Solder terminal basic type 1939









PCB terminal basic type 1934














Further information under

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











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