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 housing connections	hard components of PC / soft components of TPE (bellows) PA 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)	1935.3135	1935.3137	1935.3112	1935.3113	1935.3114	1935.3118	1935.3119	1935.3129	Normally open contact (DPNO)	1935.3218	ON/OFF switch (DPST)	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																	
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				●	●	●	●							●			

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double-pole 	ON/OFF switch (DPST)	1932.1113	1932.1114	1932.3112	1932.3113	1932.3114	1932.3118	1932.3412	1932.3418	Normally closed contact (DPNC)	1932.3312	Normally open contact (DPNO)	1932.3413	Switch (DPDT)	1934.3112	1934.3113	1934.3114
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		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
Connection description																	
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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double-pole	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		O I		– O =		◁ O ▷		◁ O ▷		
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				●	●					

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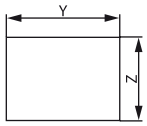
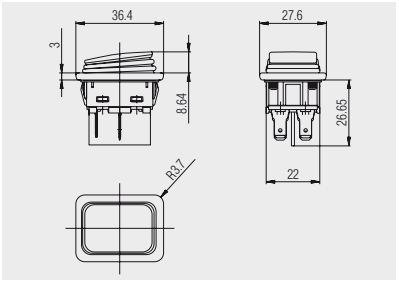
Basic types 1932, 1934, 1935 and 1939
double-pole

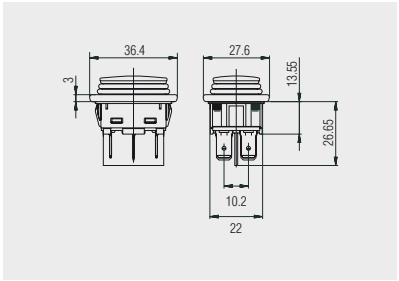


X = Wall thickness

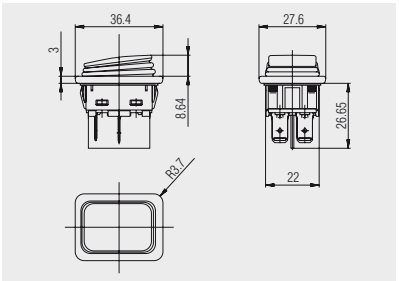
X	Y	Z
0.75 ... 1.25	30 $^{-0.1}$	22 $^{+0.2}$
1.25 ... 3.0	30.2 $^{-0.1}$	22 $^{+0.2}$



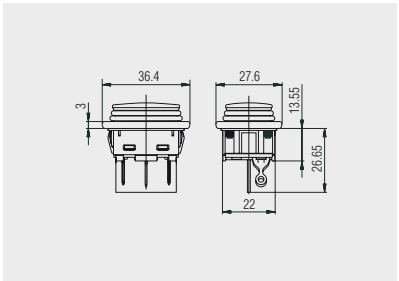
Quick-connect terminal 4.8
basic type 1932



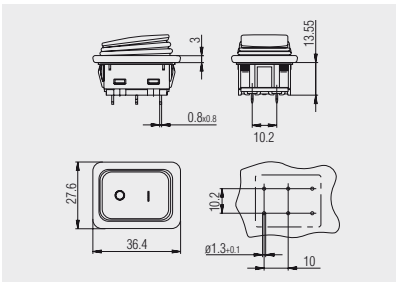
Quick-connect terminal 6.3
basic type 1939



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 ≙ **50 000** switching cycles