

➤ SERIES 3250 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES IP 66/IP 68

TO 20 (10) A 12 AND 24 V DC 1E5



PRODUCT FEATURES

- ➔ High dust and water protection with IP 66 and IP 68
- ➔ Unique and millions of times proven snap-action switching system
- ➔ Self cleaning due to relative movement
- ➔ Up to 4 integrated LEDs for background and function illumination
- ➔ Mechanical life $\geq 500\,000$ cycles
- ➔ Wide range up to 20 A at 12 / 24 VDC
- ➔ Large variety of all required switching and circuit options
- ➔ Attractive design with various cap shapes and colors
- ➔ Large selection of laser etched symbols and accessories
- ➔ Individually configurable on www.marquardt-switches.com/configurator3250


ON REQUEST

- ➔ Further cap symbols (laser etched)
- ➔ Further switching functions
- ➔ Further illumination variants
- ➔ Further cap colors
- ➔ Customer specific cap style

Mechanical life endurance	50E4
Operating force	7 N to 12 N +1,5 N
Contact resistance (new condition)	< 100 mOhm (1 A 12 V DC)
Insulation resistance (new condition)	> 100 MOhm (500 V DC)
Proof tracking	250 PTI
Actuator	IP 66 and IP 68 actuator side
Ambient temperature	terminal side -40 °C ... +85 °C actuating side -40 °C ... +85 °C
Material actuator housing terminals	PA glass fiber-reinforced / PC PA / PP silver plated
Terminal type	Quick-connect terminal
Lighting type	Symbol position 1 + 2 green; red function illumination red; yellow external function illumination red; yellow
Lighting voltage	24 V 12 V

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TO 20 (10) A 12 AND 24 V DC 1E5

 single-pole	Lighting voltage (V)	Housing color										Terminal type	Terminal description	Product code	Miscellaneous	Stock version		
		20 (10) A 24 V DC 1E5																
		20 (10) A 12 V DC 1E5																
		10 (5) A 24 V DC 1E5																
		10 (5) A 12 - 24 V DC 1E5																
		10 (5) A 12 V DC 1E5																
		< 100 mA 24 V DC 5E5																
		< 100 mA 12 V DC 5E5																
ON / OFF switch (SPST)																		
3250.0009	24		○										⏏	3.0 x 0.8	3250-1A-30-3-0	with search lighting LED green circuit symbol: 50.01		
3250.0033	24		○										⏏	3.0 x 0.8	3250-1A-40-3-0	with search lighting LED red circuit symbol: 50.01		
3250.0007	24			○									⏏	3.0 x 0.8	3250-1A-30-1-0	with search lighting LED green circuit symbol: 50.01		
3250.0013	24			○									⏏	3.0 x 0.8	3250-1A-31-1-0	with function indicator LED red with search lighting LED green circuit symbol: 50.13		
3251.0002	24			○									⏏	3.0 x 0.8	3250-1A-31-1-0-A0-bl-0719-0000-01	with function indicator LED red with search lighting LED green with pre assembled cap circuit symbol: 50.13		
3251.0005	24			○									⏏	3.0 x 0.8	3250-1A-31-1-0-A0-re-1360-0000-00	with search lighting LED green with pre assembled cap circuit symbol: 50.01		
3250.0006	12			○									⏏	3.0 x 0.8	3250-1A-10-3-0	with search lighting LED green circuit symbol: 50.01		
3250.0030	12			○									⏏	3.0 x 0.8	3250-1A-20-3-0	with search lighting LED red circuit symbol: 50.01		
3250.0001							○						⏏	3.0 x 0.8	3250-1A-00-1-0	circuit symbol: 50.43		
Normally open contact (SPNO)																		
3250.0060	24		○										⏏	3.0 x 0.8	3250-1B-30-3-0	with search lighting LED green circuit symbol: 50.02		
3250.0072	24		○										⏏	3.0 x 0.8	3250-1B-40-3-0	with search lighting LED red circuit symbol: 50.02		
3250.0057	12			○									⏏	3.0 x 0.8	3250-1B-10-3-0	with search lighting LED green circuit symbol: 50.02		
3250.0069	12			○									⏏	3.0 x 0.8	3250-1B-20-3-0	with search lighting LED red circuit symbol: 50.02		
3250.0052							○						⏏	3.0 x 0.8	3250-1B-00-1-0	circuit symbol: 50.44		
Changeover switch (SPDT)																		
3250.0118	24			○									⏏	3.0 x 0.8	3250-1E-31-1-0	with function indicator LED red with search lighting LED green circuit symbol: 50.17		
3250.0142	24			○									⏏	3.0 x 0.8	3250-1E-41-1-0	with function indicator LED yellow with search lighting LED red circuit symbol: 50.17		
3250.0115	12						○						⏏	3.0 x 0.8	3250-1E-11-1-0	with function indicator LED red with search lighting LED green circuit symbol: 50.17		
3250.0139	12						○						⏏	3.0 x 0.8	3250-1E-21-1-0	with function indicator LED yellow with search lighting LED red circuit symbol: 50.17		
3250.0106							○						⏏	3.0 x 0.8	3250-1E-00-1-0	circuit symbol: 50.47		
Changeover switch (SPDT momentary)																		
3250.0163	24			○									⏏	3.0 x 0.8	3250-1F-30-1-0	with search lighting LED green circuit symbol: 50.06		
3250.0170	24									○			⏏	3.0 x 0.8	3250-1F-34-2-0	with function indicator LED red with search lighting LED green circuit symbol: 50.24		
3250.0160	12						○						⏏	3.0 x 0.8	3250-1F-10-1-0	with search lighting LED green circuit symbol: 50.06		
3250.0167	12									○			⏏	3.0 x 0.8	3250-1F-14-2-0	with function indicator LED red with search lighting LED green circuit symbol: 50.24		

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 MICRO-SIGNAL SWITCHES
 SENSORS
 ECO
 PUSH/DRIVE

➤ SERIES 3250 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES IP 66/IP 68
























TO 20 (10) A 12 AND 24 V DC 1E5

 double-pole	Lighting voltage (V)	Housing color	20 (10) A 24 V DC 1E5	20 (10) A 12 V DC 1E5	10 (5) A 24 V DC 1E5	10 (5) A 12 - 24 V DC 1E5	10 (5) A 12 V DC 1E5	< 100 mA 24 V DC 5E5	< 100 mA 12 V DC 5E5	Terminal type	Terminal description	Product code	Miscellaneous	Stock version
	ON / OFF switch (DPST)													
3250.0196	24					○					3.0 x 0.8	3250-2A-31-1-0	with function indicator LED red with search lighting LED green circuit symbol: 50.25	
3250.0184					○						3.0 x 0.8	3250-2A-00-1-0	circuit symbol: 50.49	
Changeover switch (DPDT)														
3250.0301	24				○						3.0 x 0.8	3250-2E-31-1-0	with function indicator LED red with search lighting LED green circuit symbol: 50.29	
3250.0325	24				○						3.0 x 0.8	3250-2E-41-1-0	with function indicator LED yellow with search lighting LED red circuit symbol: 50.29	
3250.0298	12					○					3.0 x 0.8	3250-2E-11-1-0	with function indicator LED red with search lighting LED green circuit symbol: 50.29	
3250.0322	12					○					3.0 x 0.8	3250-2E-21-1-0	with function indicator LED yellow with search lighting LED red circuit symbol: 50.29	
3251.0003	12					○					3.0 x 0.8	3250-2E-21-1-0-B0-bl-1370-0000-01	with function indicator LED yellow with search lighting LED red with pre assembled cap circuit symbol: 50.29	
3250.0289					○						3.0 x 0.8	3250-2E-00-1-0	circuit symbol: 50.53	
Changeover switch (DPDT momentary)														
3250.0346	24				○						3.0 x 0.8	3250-2F-30-1-0	with search lighting LED green circuit symbol: 50.42	
3250.0353	24					○					3.0 x 0.8	3250-2F-35-2-0	with function indicator LED red with search lighting LED green circuit symbol: 50.36	
3250.0343	12					○					3.0 x 0.8	3250-2F-10-1-0	with search lighting LED green circuit symbol: 50.42	
3250.0350	12							○			3.0 x 0.8	3250-2F-15-2-0	with function indicator LED red with search lighting LED green circuit symbol: 50.36	

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➔ SERIES 3250 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES IP 66/IP 68

TO 20 (10) A 12 AND 24 V DC 1E5

 Combination	Lighting voltage (V)	Housing color	20 (10) A 24 V DC 1E5	20 (10) A 12 V DC 1E5	10 (5) A 24 V DC 1E5	10 (5) A 12 - 24 V DC 1E5	10 (5) A 12 V DC 1E5	< 100 mA 24 V DC 5E5	< 100 mA 12 V DC 5E5	Terminal type	Terminal description	Product code	Miscellaneous	Stock version
	3-step OFF-ON-ON switch (2xSPST)													
3250.0649					○						3.0 x 0.8	3250-5A-00-1-0	circuit symbol: 50.139	
Changeover switch with OFF-position in the center (2xSPST - Center OFF)														
3250.0379	24				○						3.0 x 0.8	3250-3A-34-1-0	with function indicator LED red with search lighting LED green circuit symbol: 50.108	
3250.0436	24				○						3.0 x 0.8	3250-3B-39-1-0	with search lighting LED green circuit symbol: 50.108 momentary function both sides	
3250.0431	24							○			3.0 x 0.8	3250-3B-48-2-0	with function indicator LED yellow with search lighting LED red circuit symbol: 50.128 momentary function both sides	
3250.0376	12						○				3.0 x 0.8	3250-3A-14-1-0	with function indicator LED red with search lighting LED green circuit symbol: 50.113	
3250.0433	12						○				3.0 x 0.8	3250-3B-19-1-0	mit Suchbeleuchtung LED grün Schaltzeichen: 50.108 Tastfunktion beidseitig	
3251.0004	12						○				3.0 x 0.8	3250-3B-19-1-0-B0-bl-1390-1380-00	mit Suchbeleuchtung LED grün Schaltzeichen: 50.108 Tastfunktion beidseitig	
3250.0428	12							○			3.0 x 0.8	3250-3B-28-2-0	mit Funktionsanzeige LED gelb mit Suchbeleuchtung LED rot Schaltzeichen: 50.128 Tastfunktion beidseitig	
3250.0367					○						3.0 x 0.8	3250-3A-00-1-0	Schaltzeichen: 50.121	
3250.0418					○						3.0 x 0.8	3250-3B-00-1-0	Schaltzeichen: 50.122 Tastfunktion beidseitig	
3-step changeover switch (2xSPDT)														
3250.0514	24				○						3.0 x 0.8	3250-4A-34-1-0	mit Funktionsanzeige LED rot mit Suchbeleuchtung LED grün Schaltzeichen: 50.117	
3250.0577	24				○						3.0 x 0.8	3250-4B-39-1-0	mit Suchbeleuchtung LED grün Schaltzeichen: 50.112 Tastfunktion beidseitig	
3250.0616	24				○						3.0 x 0.8	3250-4C-38-1-0	mit Funktionsanzeige LED rot mit Suchbeleuchtung LED grün Schaltzeichen: 50.137 Tastfunktion einseitig	
3250.0572	24						○				3.0 x 0.8	3250-4B-38-2-0	mit Funktionsanzeige LED rot mit Suchbeleuchtung LED grün Schaltzeichen: 50.132 Tastfunktion beidseitig	
3250.0590	24						○				3.0 x 0.8	3250-4B-48-2-0	mit Funktionsanzeige LED gelb mit Suchbeleuchtung LED rot Schaltzeichen: 50.132 Tastfunktion beidseitig	
3250.0511	12						○				3.0 x 0.8	3250-4A-14-1-0	mit Funktionsanzeige LED rot mit Suchbeleuchtung LED grün Schaltzeichen: 50.117	
3250.0574	12						○				3.0 x 0.8	3250-4B-19-1-0	mit Suchbeleuchtung LED grün Schaltzeichen: 50.112 Tastfunktion beidseitig	
3250.0613	12						○				3.0 x 0.8	3250-4C-18-1-0	mit Funktionsanzeige LED rot mit Suchbeleuchtung LED grün Schaltzeichen: 50.137 Tastfunktion einseitig	
3250.0569	12							○			3.0 x 0.8	3250-4B-18-2-0	mit Funktionsanzeige LED rot mit Suchbeleuchtung LED grün Schaltzeichen: 50.132 Tastfunktion beidseitig	
3250.0587	12							○			3.0 x 0.8	3250-4B-28-2-0		
3251.0001	12							○			3.0 x 0.8	3250-4B-28-2-0-B0-bl-1213-1223-02	mit Funktionsanzeige LED gelb mit Suchbeleuchtung LED rot Schaltzeichen: 50.132 Tastfunktion beidseitig	
3250.0496					○						3.0 x 0.8	3250-4A-00-K1-0	Schaltzeichen: 50.125	

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SWAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

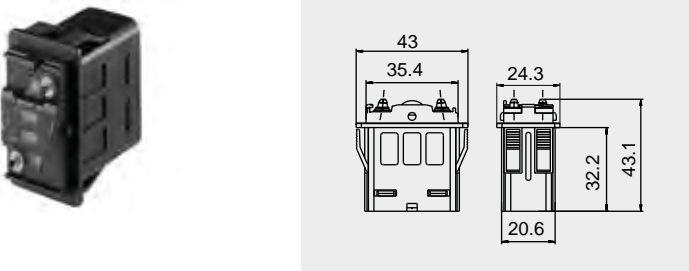
SENSORS

ECO

PUSH/DRIVE

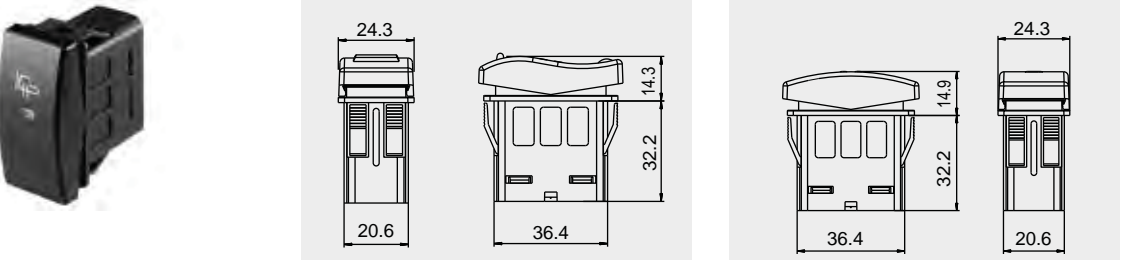
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TO 20 (10) A 12 AND 24 V DC 1E5



Series 3250


Quick-connect terminal 3.0 x 0.8



Series 3250

Quick-connect terminal 3.0 x 0.8

Quick-connect terminal 3.0 x 0.8



Cap design 1

black
203.990.015 - no light guide
203.105.016 - 1 light guide
203.105.026 - 2 light guide

red
203.990.045 - kein light guide
203.105.036 - 1 light guide
203.105.046 - 2 light guide

lock 1
203.107.016 - bl.; no light g.
203.107.046 - bl.; 1 light g.
203.107.076 - red.; no light g.
203.107.106 - red.; 1 light g.

lock 2
203.107.026 - bl.; no light g.
203.107.056 - bl.; 1 light g.
203.107.086 - red.; no light g.
203.107.116 - red.; 1 light g.

lock 3
203.107.036 - bl.; no light g.
203.107.066 - bl.; 1 light g.
203.107.096 - red.; no light g.
203.107.126 - red.; 1 light g.

Snap-on cap for basic type 3250. Painted black or red. With or without light guide for function illumination. Laser etched by customer or on request.

Versions with locking function:

- lock 1 in neutral position
- lock 2 in actuated position
- lock 3 in both positions

Note: Rocker must be ordered separately in addition to the basic switch. Assembly on request or on customer side.

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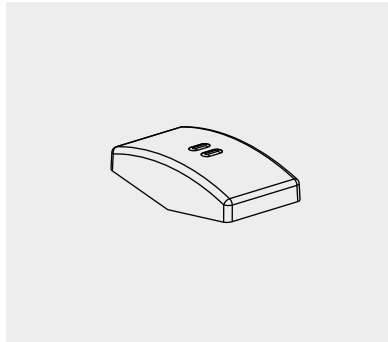
Cap design 2

black

203.991.015 - no light guide
 203.106.016 - 1 light guide
 203.106.026 - 2 light guide

red

203.991.045 - kein light guide
 203.106.036 - 1 light guide
 203.106.046 - 2 light guide



lock 1

203.108.016 - bl.; no light g.
 203.108.046 - bl.; 1 light g.
 203.108.076 - red; no light g.
 203.108.106 - red.; 1 light g.

lock 2

203.108.026 - bl.; no light g.
 203.108.056 - bl.; 1 light g.
 203.108.086 - red.; no light g.
 203.108.116 - red.; 1 light g.

Snap-on cap for basic type 3250. Painted black or red. With or without light guide for function illumination. Laser etched by customer or on request.

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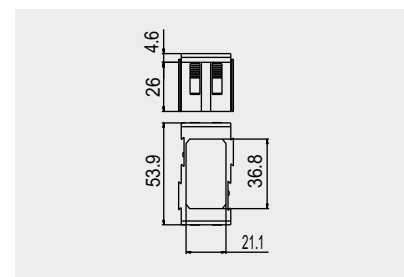
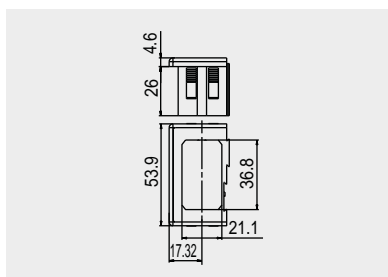
lock 3

203.108.036 - bl.; no light g.
 203.108.066 - bl.; 1 light g.
 203.108.096 - red.; no light g.
 203.108.126 - red.; 1 light g.




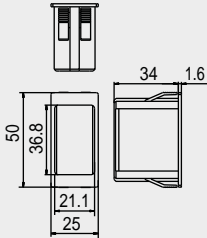
Assembly frame

Can be stringed together; black
 217.887.011 (end piece)
 217.887.021 (center piece)




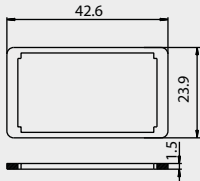
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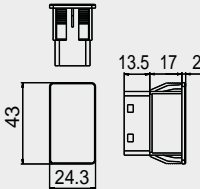
Adapter frame
217.879.011

Adapter frame for basic type 3250 in black. For cut-out 44 mm x 22 mm.


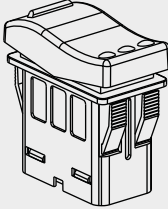
Panel seal
343.171.011
Seal for adapter frame
343.171.021

Panel seal for base switch 3250 / adapter frame 217.879.011. Dust- and water protection IP 67 from actuation side (correct customer assembly mandatory). Assembly on customers side or on demand. Thickness 1.5 mm; black.

Hole plug
237.036.011

Hole plug for basic type 3250. With support for block connector.

Pilot light 3257

Pilot light 3257 in the same design as basic type 3250 without switching function. With 2 LEDs. Different colors available on demand. Each LED individually controllable. Laser inscription by customer or on request.

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Tyco block connector for cable connection for basic switch 3250.
Black, Tyco no. 1418994

AK connector (AK 5820 03) on request.

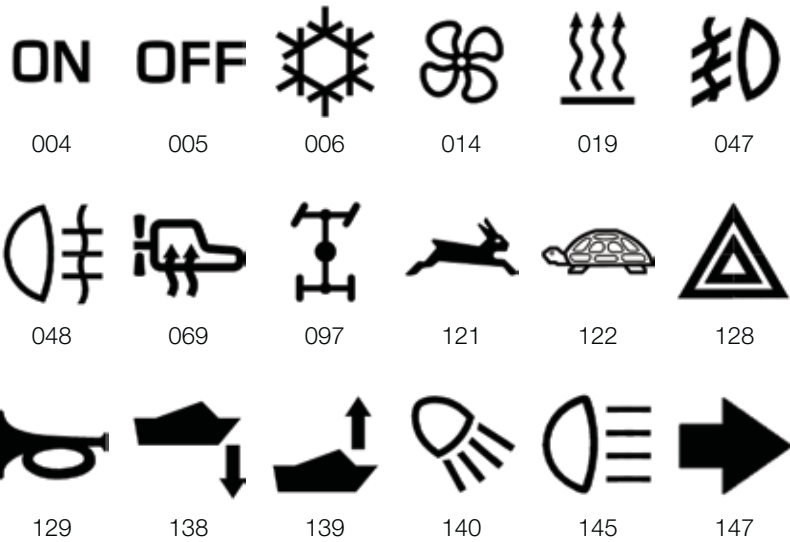
Block connector
217.849.011



Tyco JPT (Junior Power Timer) female connectors for terminals of 3250 series.
Tyco No. 1355046.

Tyco MCP (Multiple Contact Point) on request.

Female connector
288.029.011

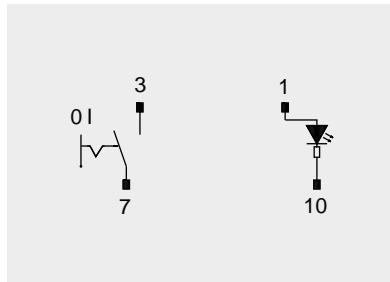


Lasered rocker symbols
(examples)
more on request

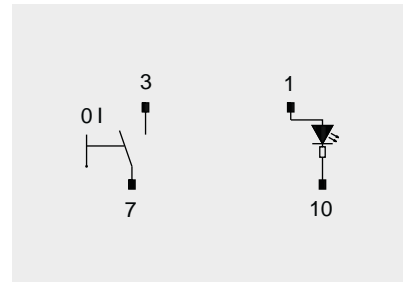
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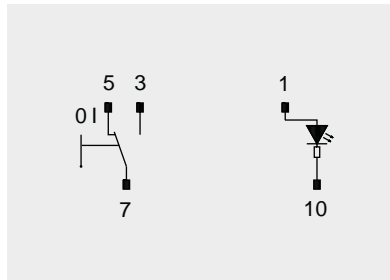
Circuit symbols



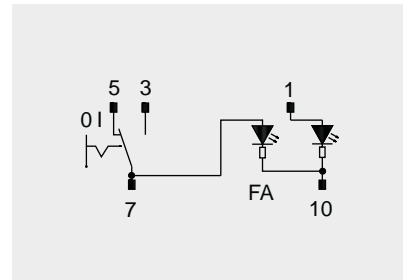
50.01



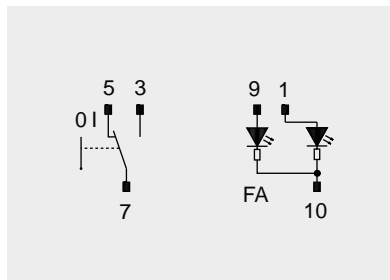
50.02



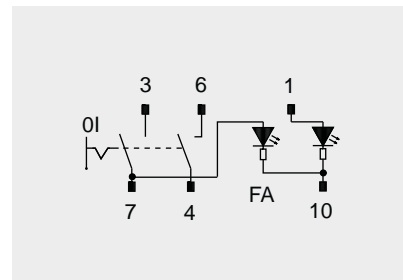
50.06



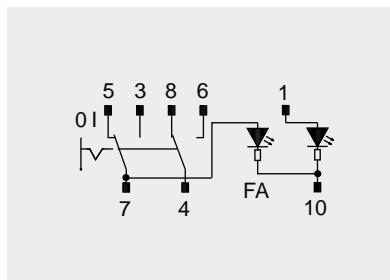
50.17



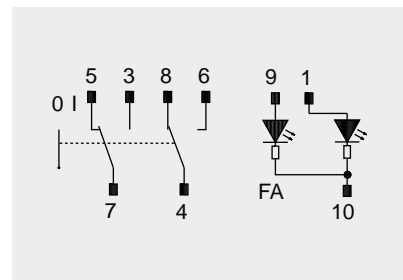
50.24



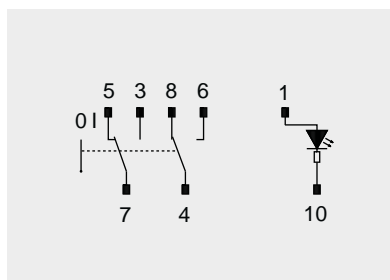
50.25



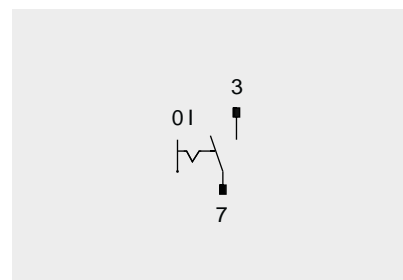
50.29



50.36



50.42



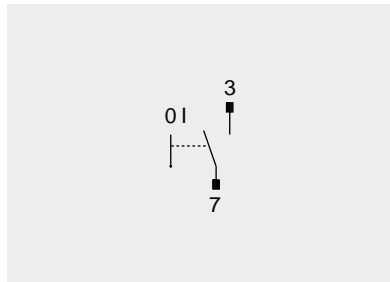
50.43

ROCKER SWITCHES
PUSHBUTTON SWITCHES
TOGGLE SWITCHES
SLIDE SWITCHES
ROTARY SWITCHES
FOOT SWITCHES
TACT AND KEY SWITCHES
SNAP-ACTION SWITCHES
MICRO-SIGNAL SWITCHES
SENSORS
ECO
PUSH-IN DRIVE

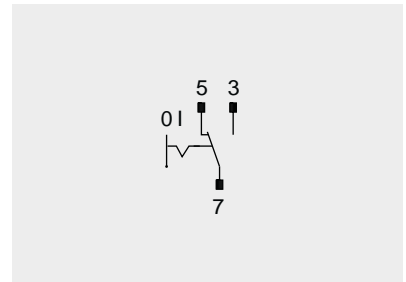
➤ SERIES 3250 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES IP 66/IP 68

TO 20 (10) A 12 AND 24 V DC 1E5

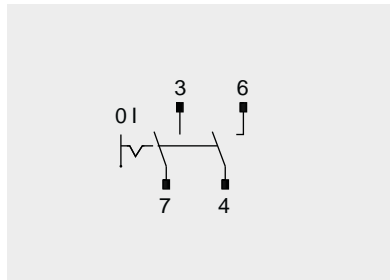
Circuit symbols
(continue from page 91)



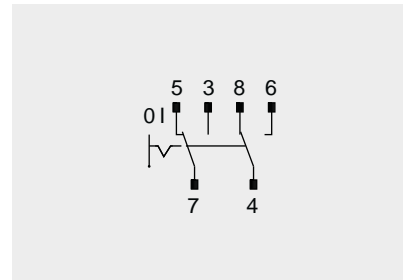
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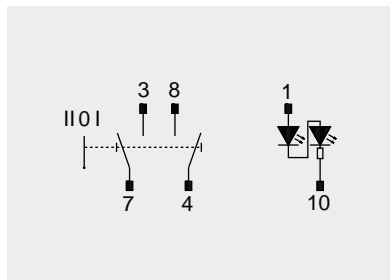
50.47



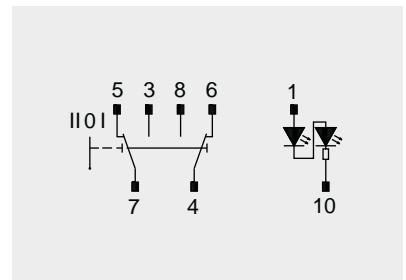
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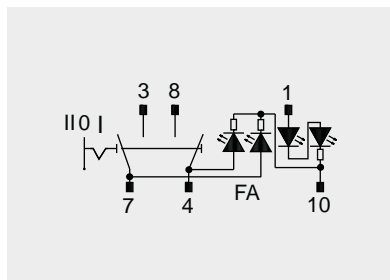
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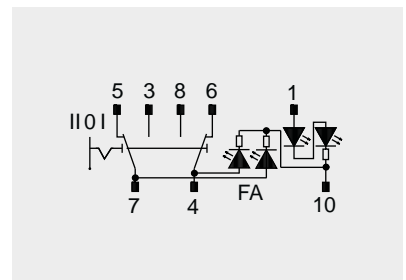
50.108



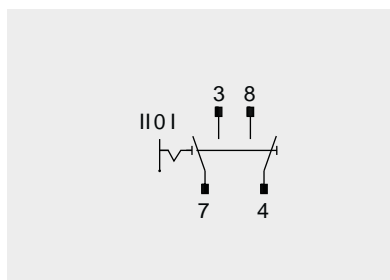
50.112



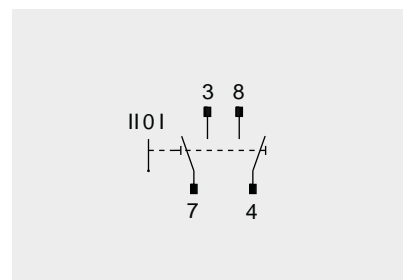
50.113



50.117



50.121

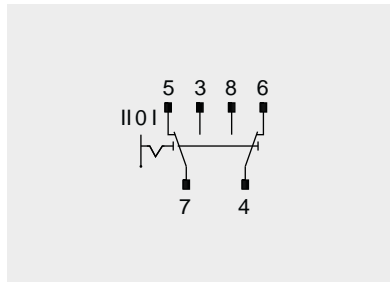


50.122

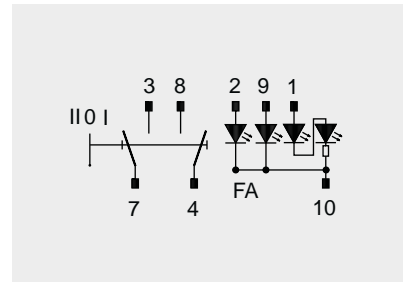
➤ SERIES 3250 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES IP 66/IP 68

TO 20 (10) A 12 AND 24 V DC 1E5

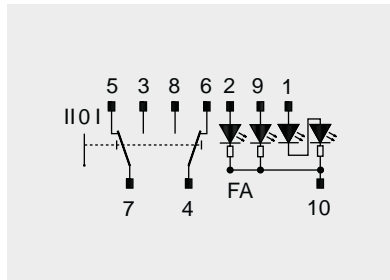
Circuit symbols
(continue from page 92)



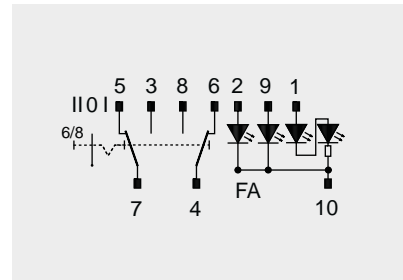
50.125



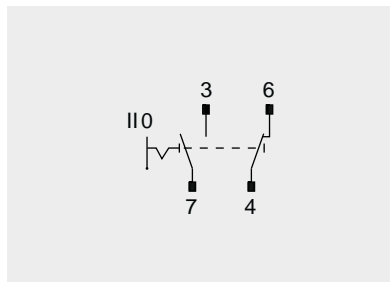
50.128



50.132



50.137



50.139

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

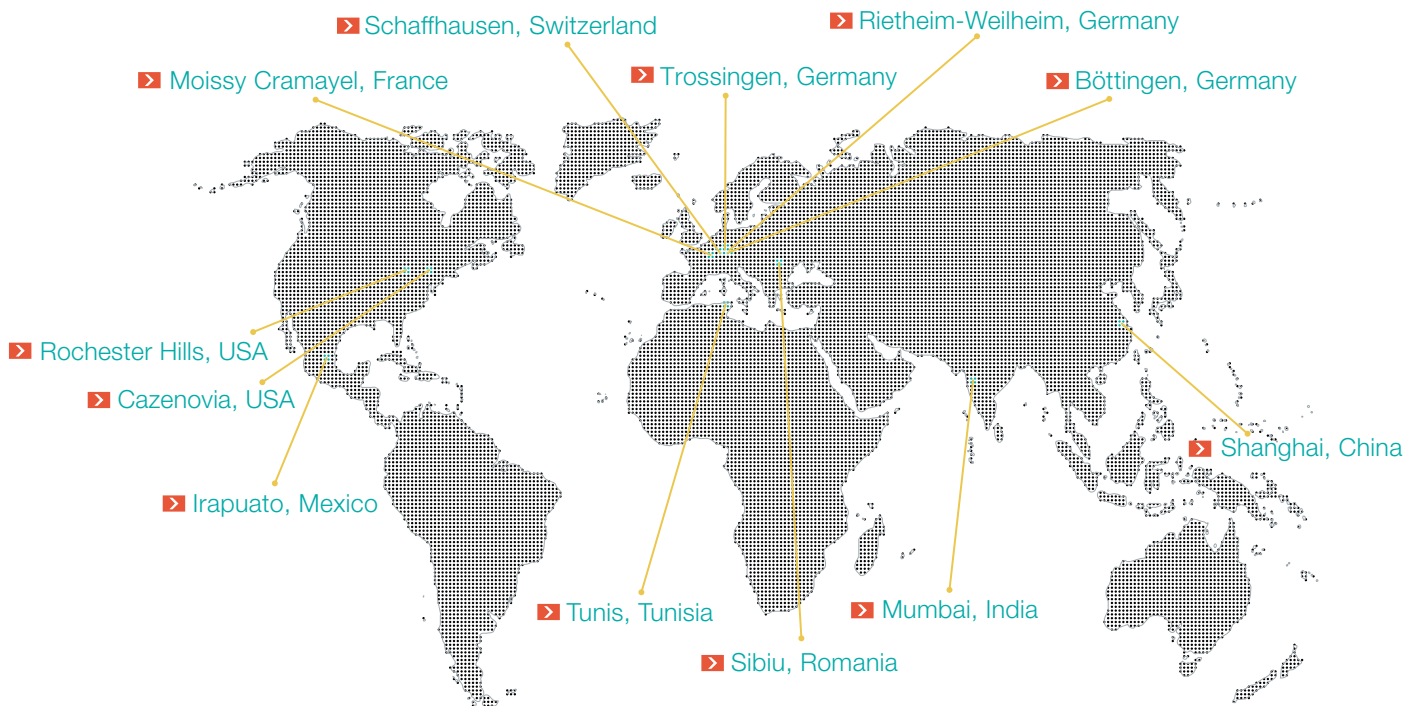
MICRO-SIGNAL SWITCHES

SENSORS

ECO

PUSH-IN DRIVE

MARQUARDT INTERNATIONAL.



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