

## ➤ 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](http://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<br>actuating side -40 °C ... +85 °C                                                 |
| Material actuator<br>housing<br>terminals | PA glass fiber-reinforced / PC<br>PA / PP<br>silver plated                                                          |
| Terminal type                             | Quick-connect terminal                                                                                              |
| Lighting type                             | Symbol position 1 + 2 green; red<br>function illumination red; yellow<br>external function illumination red; yellow |
| Lighting voltage                          | 24 V<br>12 V                                                                                                        |

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

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

| <div></div> <div>single-pole</div> | 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 (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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TO 20 (10) A 12 AND 24 V DC 1E5

|                                                                                                  |                      |               |                       |                       |                      |                           |                      |                      |                      |                                                                                     |                      |                                   |                                                                                                              |               |
|--------------------------------------------------------------------------------------------------|----------------------|---------------|-----------------------|-----------------------|----------------------|---------------------------|----------------------|----------------------|----------------------|-------------------------------------------------------------------------------------|----------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------|---------------|
| <br>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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TO 20 (10) A 12 AND 24 V DC 1E5

| <br>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<br>circuit symbol: 50.113                                   |               |
| 3250.0436                                                                                        | 24                   |               |  |                       | ○                     |                      |                           |                      |                      |                      |    | 3.0 x 0.8            | 3250-3B-39-1-0                    | with search lighting LED green<br>circuit symbol: 50.112<br>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<br>circuit symbol: 50.128<br>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<br>circuit symbol: 50.113                                   |               |
| 3250.0433                                                                                        | 12                   |               |  |                       |                       |                      | ○                         |                      |                      |                      |  | 3.0 x 0.8            | 3250-3B-19-1-0                    | mit Suchbeleuchtung LED grün<br>Schaltzeichen: 50.108<br>Tastfunktion beidseitig                                           |               |
| 3251.0004                                                                                        | 12                   |               |  |                       |                       |                      | ○                         |                      |                      |                      |  | 3.0 x 0.8            | 3250-3B-19-1-0-B0-bl-1390-1380-00 | mit Suchbeleuchtung LED grün<br>Schaltzeichen: 50.108<br>Tastfunktion beidseitig                                           |               |
| 3250.0428                                                                                        | 12                   |               |  |                       |                       |                      |                           |                      | ○                    |                      |  | 3.0 x 0.8            | 3250-3B-28-2-0                    | mit Funktionsanzeige LED gelb mit Suchbeleuchtung LED rot<br>Schaltzeichen: 50.128<br>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<br>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<br>Schaltzeichen: 50.117                                         |               |
| 3250.0577                                                                                        | 24                   |               |  |                       | ○                     |                      |                           |                      |                      |                      |  | 3.0 x 0.8            | 3250-4B-39-1-0                    | mit Suchbeleuchtung LED grün<br>Schaltzeichen: 50.112<br>Tastfunktion beidseitig                                           |               |
| 3250.0616                                                                                        | 24                   |               |  |                       | ○                     |                      |                           |                      |                      |                      |  | 3.0 x 0.8            | 3250-4C-38-1-0                    | mit Funktionsanzeige LED rot mit Suchbeleuchtung LED grün<br>Schaltzeichen: 50.137<br>Tastfunktion einseitig               |               |
| 3250.0572                                                                                        | 24                   |               |  |                       |                       |                      |                           | ○                    |                      |                      |  | 3.0 x 0.8            | 3250-4B-38-2-0                    | mit Funktionsanzeige LED rot mit Suchbeleuchtung LED grün<br>Schaltzeichen: 50.132<br>Tastfunktion beidseitig              |               |
| 3250.0590                                                                                        | 24                   |               |  |                       |                       |                      |                           | ○                    |                      |                      |  | 3.0 x 0.8            | 3250-4B-48-2-0                    | mit Funktionsanzeige LED gelb mit Suchbeleuchtung LED rot<br>Schaltzeichen: 50.132<br>Tastfunktion beidseitig              |               |
| 3250.0511                                                                                        | 12                   |               |  |                       |                       |                      | ○                         |                      |                      |                      |  | 3.0 x 0.8            | 3250-4A-14-1-0                    | mit Funktionsanzeige LED rot mit Suchbeleuchtung LED grün<br>Schaltzeichen: 50.117                                         |               |
| 3250.0574                                                                                        | 12                   |               |  |                       |                       |                      | ○                         |                      |                      |                      |  | 3.0 x 0.8            | 3250-4B-19-1-0                    | mit Suchbeleuchtung LED grün<br>Schaltzeichen: 50.112<br>Tastfunktion beidseitig                                           |               |
| 3250.0613                                                                                        | 12                   |               |  |                       |                       |                      | ○                         |                      |                      |                      |  | 3.0 x 0.8            | 3250-4C-18-1-0                    | mit Funktionsanzeige LED rot mit Suchbeleuchtung LED grün<br>Schaltzeichen: 50.137<br>Tastfunktion einseitig               |               |
| 3250.0569                                                                                        | 12                   |               |  |                       |                       |                      |                           |                      | ○                    |                      |  | 3.0 x 0.8            | 3250-4B-18-2-0                    | mit Funktionsanzeige LED rot mit Suchbeleuchtung LED grün<br>Schaltzeichen: 50.132<br>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<br>Schaltzeichen: 50.132<br>Tastfunktion beidseitig              |               |
| 3250.0496                                                                                        |                      |               |  |                       |                       | ○                    |                           |                      |                      |                      |  | 3.0 x 0.8            | 3250-4A-00-K1-0                   | Schaltzeichen: 50.125                                                                                                      |               |

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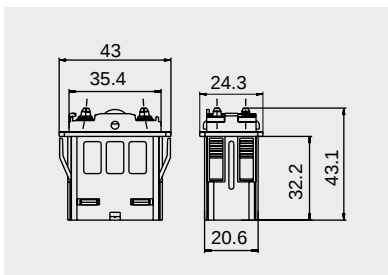
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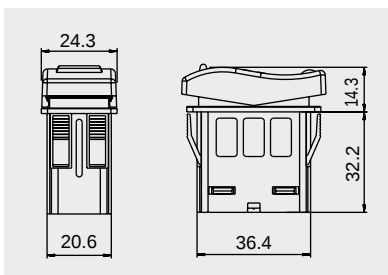
Series 3250



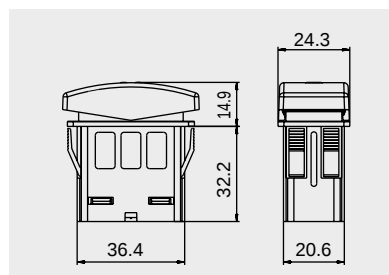
Quick-connect terminal 3.0 x 0.8



Series 3250



Quick-connect terminal 3.0 x 0.8



Quick-connect terminal 3.0 x 0.8



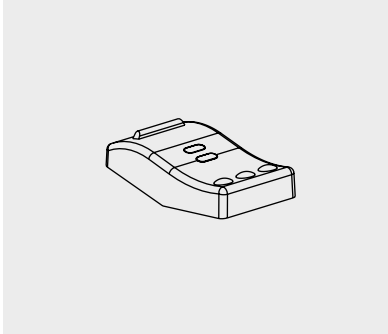
Cap design 1

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.

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.

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.

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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.

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.

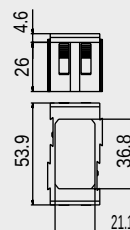
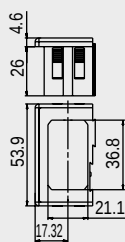
lock 3

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)

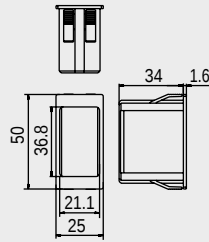


## ➤ SERIES 3250 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES IP 66/IP 68

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



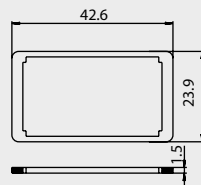
Adapter frame  
217.879.011



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



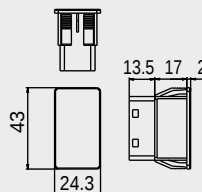
Panel seal  
343.171.011  
Seal for adapter frame  
343.171.021



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.



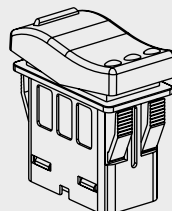
Hole plug  
237.036.011



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.

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

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



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

AK connector (AK 5820 03) on request.

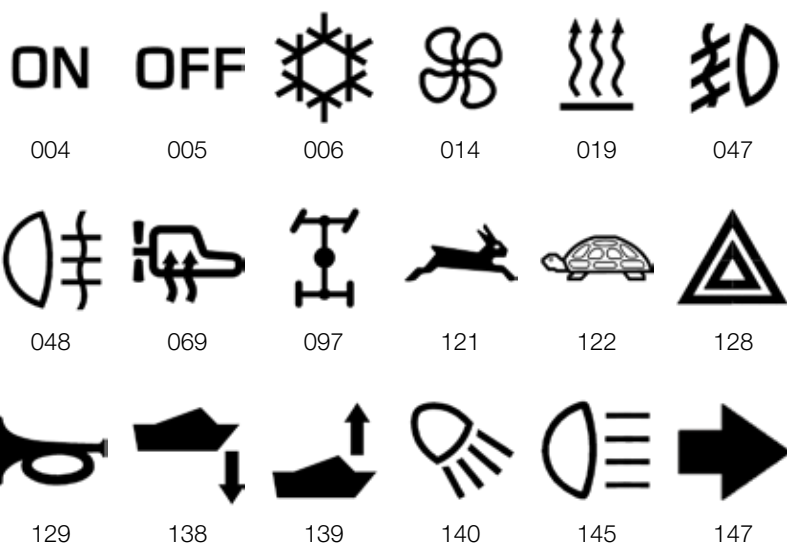
Block connector  
217.849.011



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

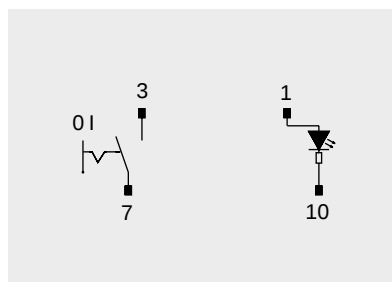


Lasered rocker symbols  
(examples)  
more on request

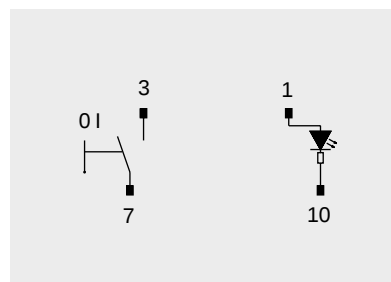
# ➤ SERIES 3250 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES IP 66/IP 68

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

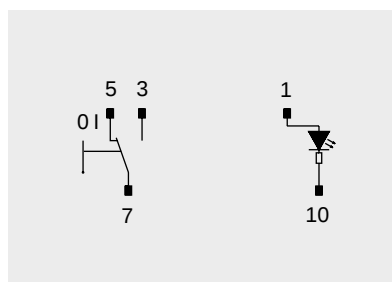
Circuit symbols



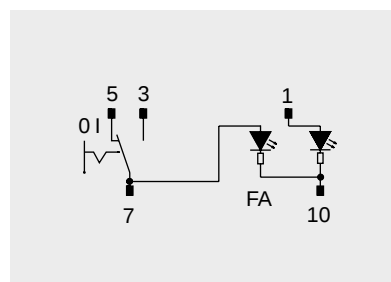
50.01



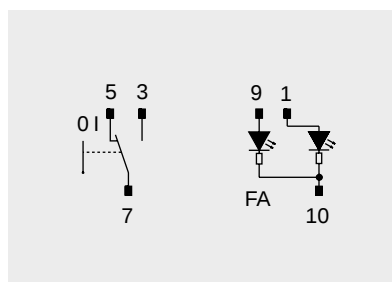
50.02



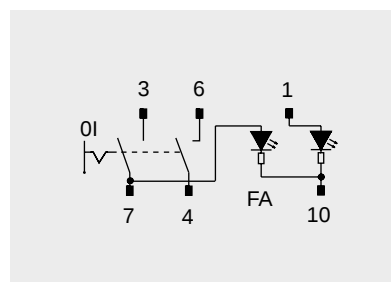
50.06



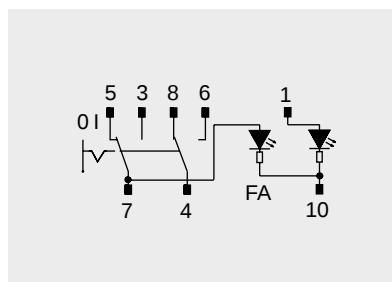
50.17



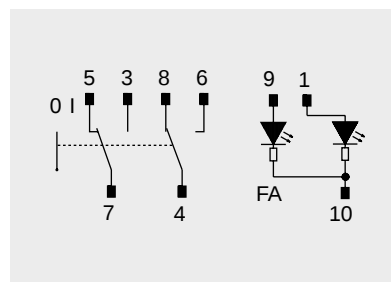
50.24



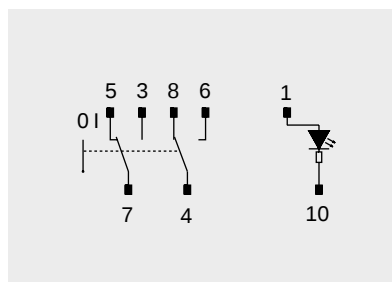
50.25



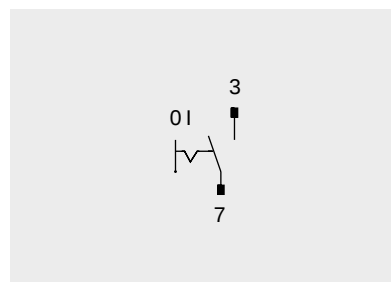
50.29



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

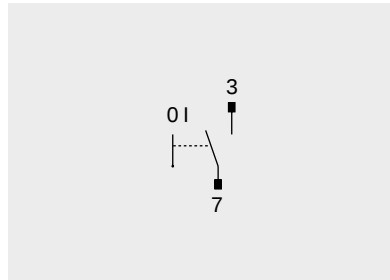
ECO

PUSH 'N' DRIVE

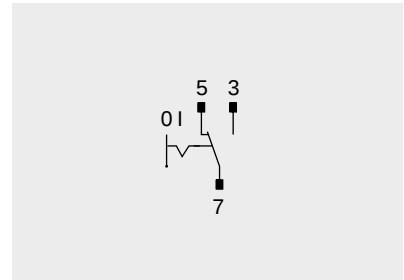
# ➤ SERIES 3250 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES IP 66/IP 68

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

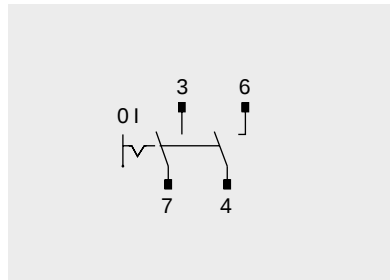
Circuit symbols  
(continue from page 91)



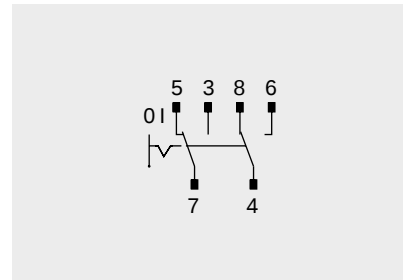
50.44



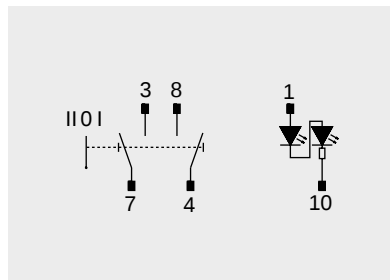
50.47



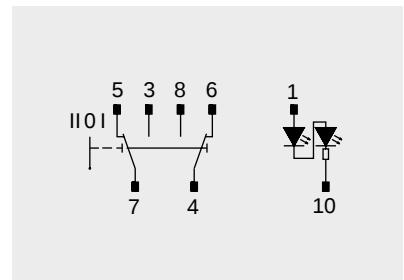
50.49



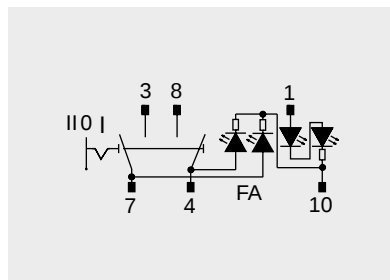
50.53



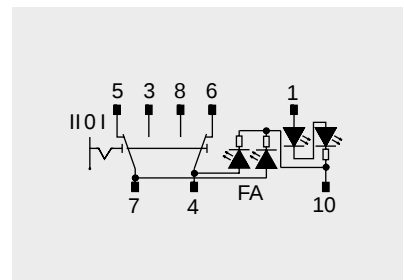
50.108



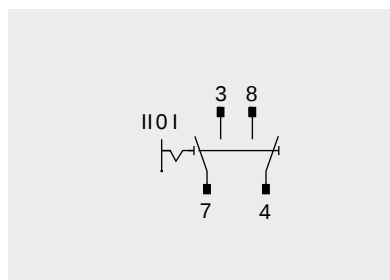
50.112



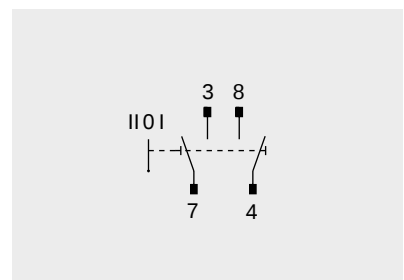
50.113



50.117



50.121

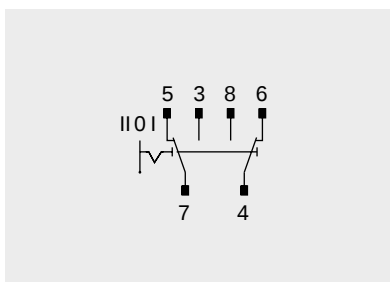


50.122

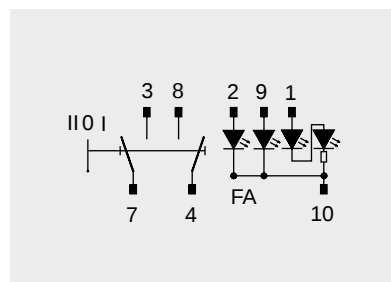
# ➤ SERIES 3250 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES IP 66/IP 68

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

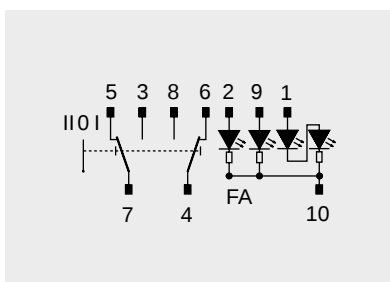
Circuit symbols  
(continue from page 92)



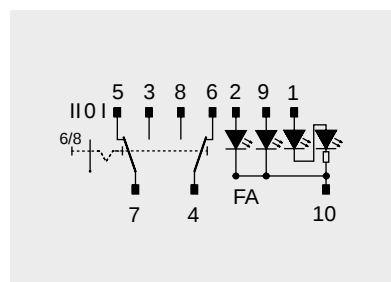
50.125



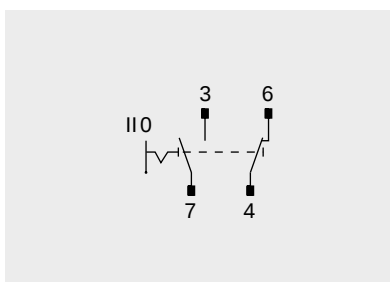
50.128



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 'N' DRIVE

## ➤ 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](http://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<br>actuating side -40 °C ... +85 °C                                                 |
| Material actuator<br>housing<br>terminals | PA glass fiber-reinforced / PC<br>PA / PP<br>silver plated                                                          |
| Terminal type                             | Quick-connect terminal                                                                                              |
| Lighting type                             | Symbol position 1 + 2 green; red<br>function illumination red; yellow<br>external function illumination red; yellow |
| Lighting voltage                          | 24 V<br>12 V                                                                                                        |

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

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

| <div></div> <div>single-pole</div> | 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 (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                        |               |

ROCKERSWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

ECO

PUSH'N'DRIVE

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

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

|                                                                                                  |                      |               |                       |                       |                      |                           |                      |                      |                      |                                                                                     |                      |                                   |                                                                                                              |               |
|--------------------------------------------------------------------------------------------------|----------------------|---------------|-----------------------|-----------------------|----------------------|---------------------------|----------------------|----------------------|----------------------|-------------------------------------------------------------------------------------|----------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------|---------------|
| <br>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                         |               |

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 'N' DRIVE

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

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

| <br>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: 50.113                                |               |
| 3250.0436                                                                                        | 24                   |               |                       | ○                     |                      |                           |                      |                      |                      |    | 3.0 x 0.8            | 3250-3B-39-1-0                    | with search lighting LED green circuit symbol: 50.112 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                                                                                                |               |

ROCKERSWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

ECO

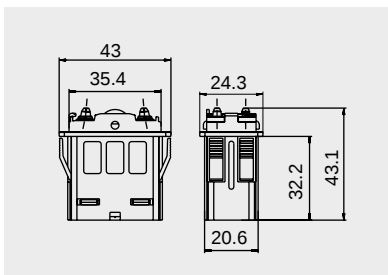
PUSH'N'DRIVE

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

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



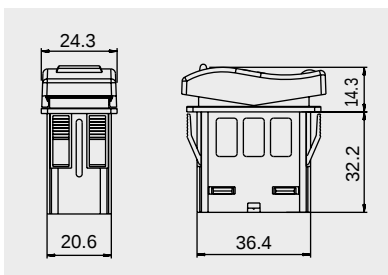
Series 3250



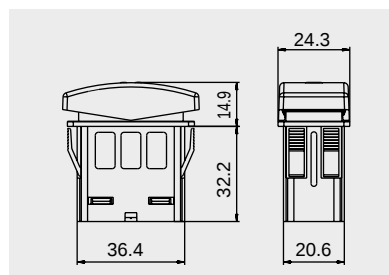
Quick-connect terminal 3.0 x 0.8



Series 3250



Quick-connect terminal 3.0 x 0.8



Quick-connect terminal 3.0 x 0.8



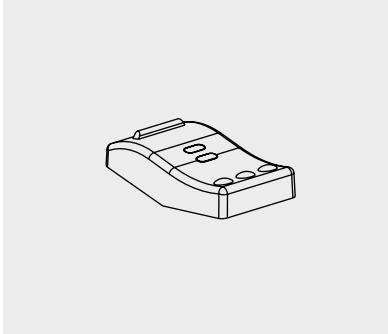
Cap design 1

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.

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.

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.

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

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



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.

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.

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.

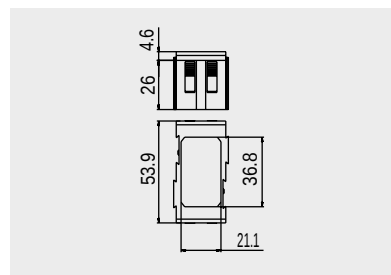
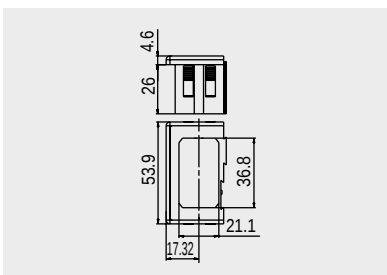


Assembly frame

Can be stringed together; black

217.887.011 (end piece)

217.887.021 (center piece)

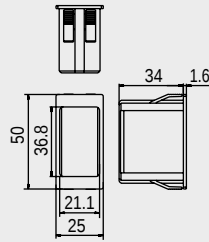


## ➤ SERIES 3250 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES IP 66/IP 68

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



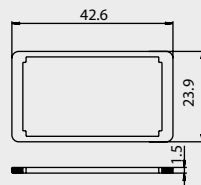
Adapter frame  
217.879.011



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



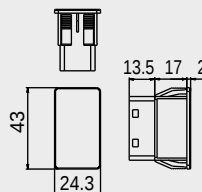
Panel seal  
343.171.011  
Seal for adapter frame  
343.171.021



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.



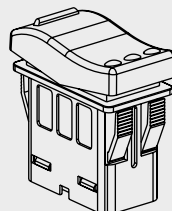
Hole plug  
237.036.011



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.

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

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



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

AK connector (AK 5820 03) on request.

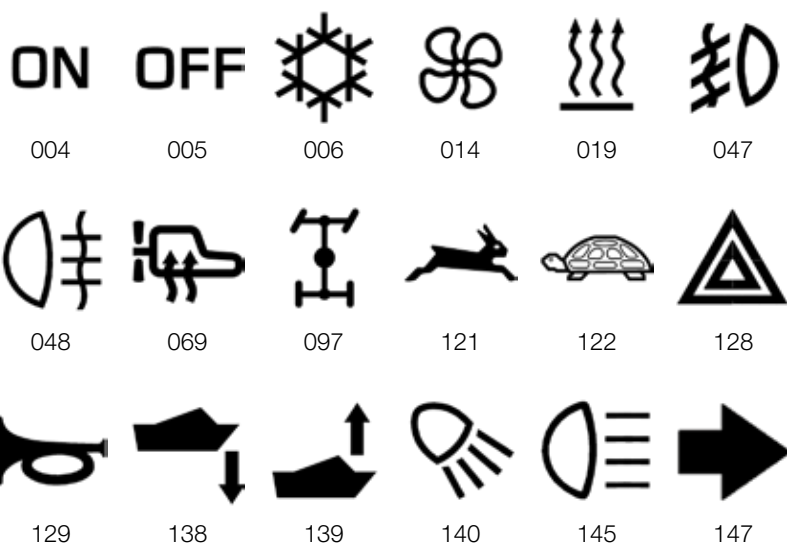
Block connector  
217.849.011



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

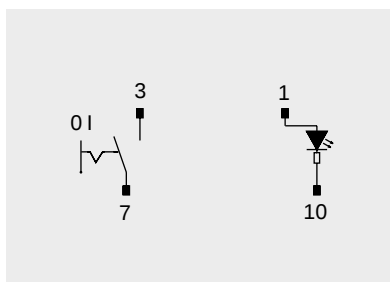


Lasered rocker symbols  
(examples)  
more on request

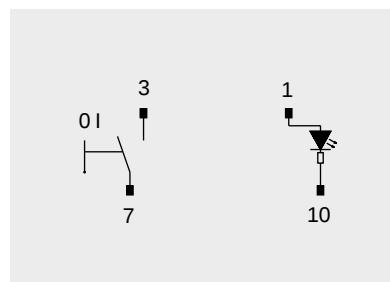
# ➤ SERIES 3250 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES IP 66/IP 68

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

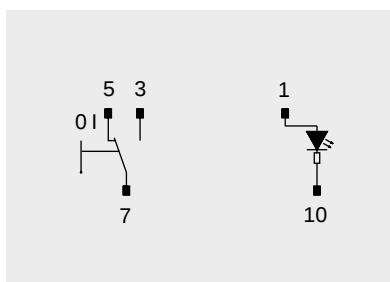
Circuit symbols



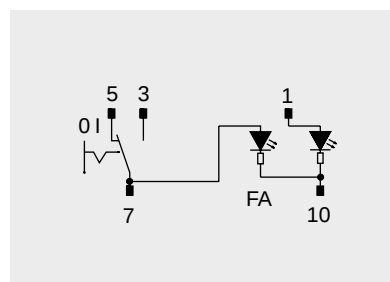
50.01



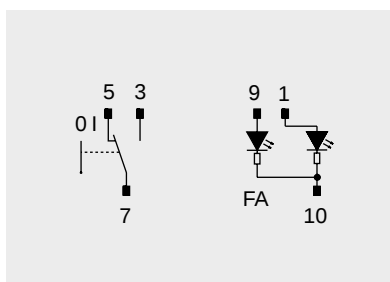
50.02



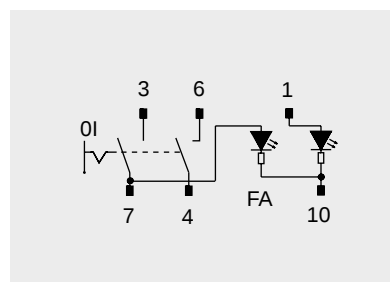
50.06



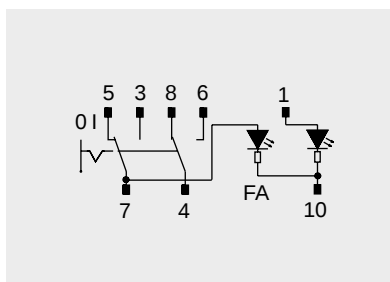
50.17



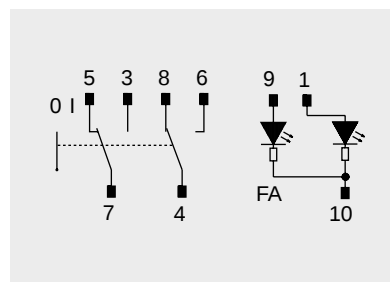
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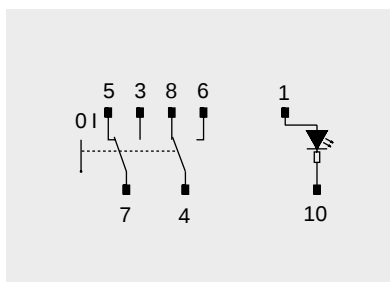
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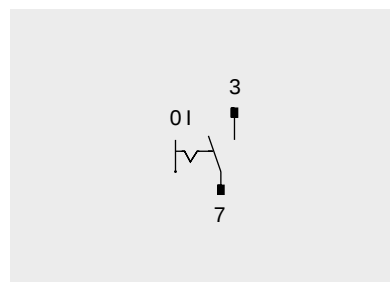
50.29



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

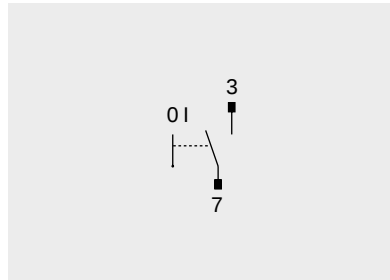
ECO

PUSH 'N' DRIVE

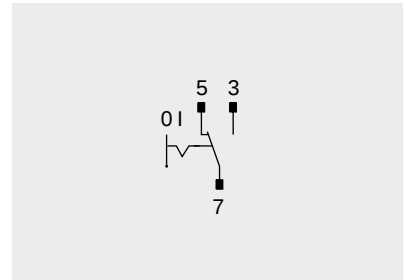
# ➤ SERIES 3250 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES IP 66/IP 68

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

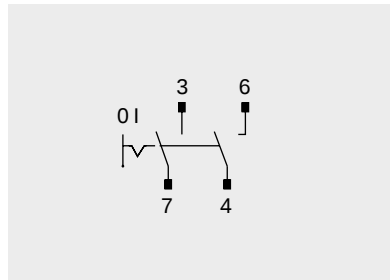
Circuit symbols  
(continue from page 91)



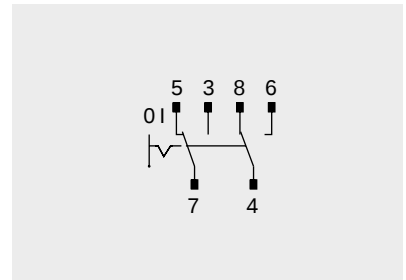
50.44



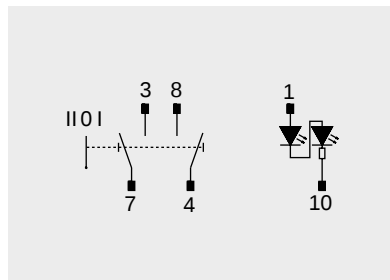
50.47



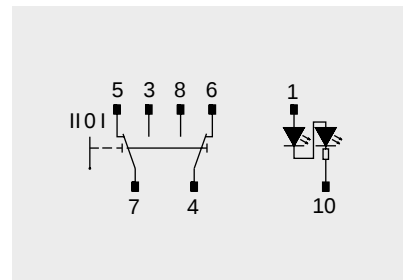
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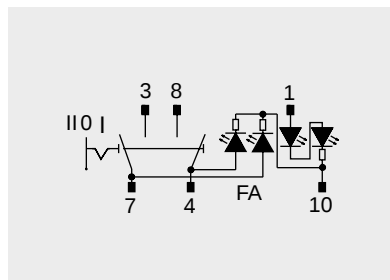
50.53



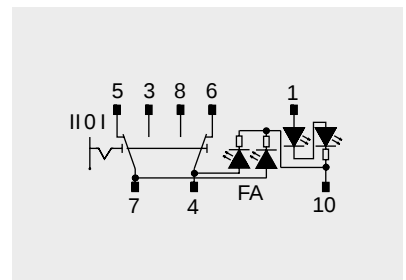
50.108



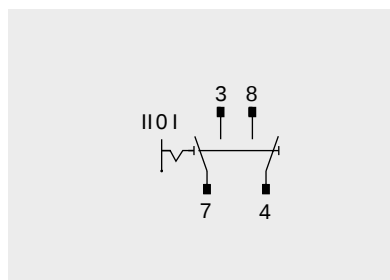
50.112



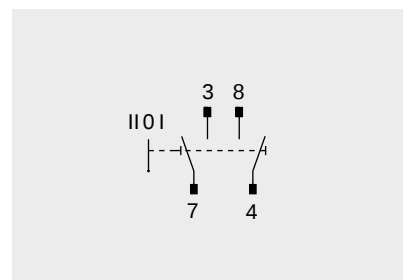
50.113



50.117



50.121

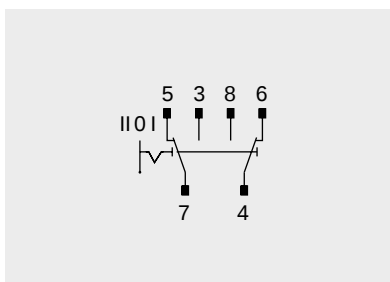


50.122

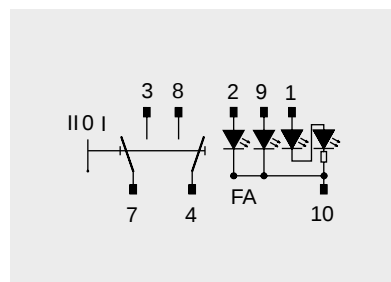
# ➤ SERIES 3250 - SINGLE AND DOUBLE-POLE ROCKER SWITCHES IP 66/IP 68

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

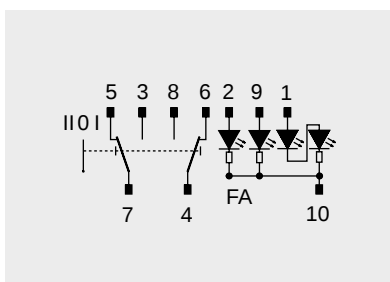
Circuit symbols  
(continue from page 92)



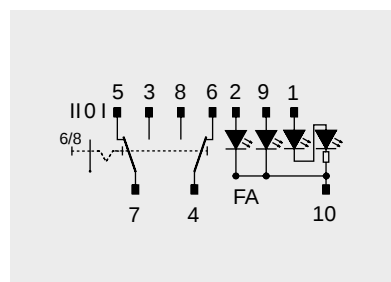
50.125



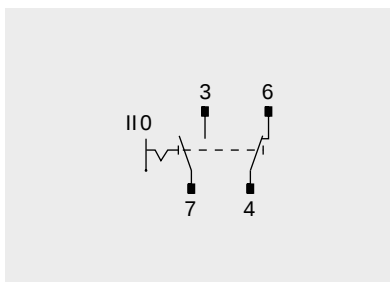
50.128



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

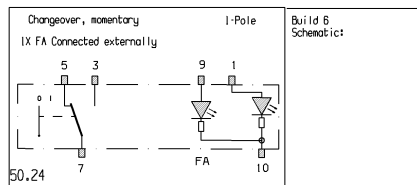
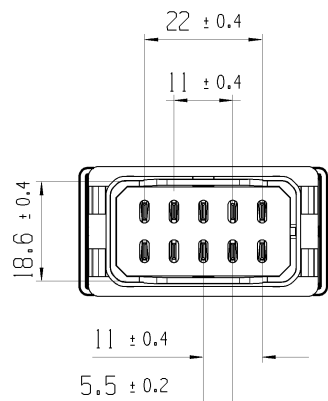
MICRO-SIGNAL SWITCHES

SENSORS

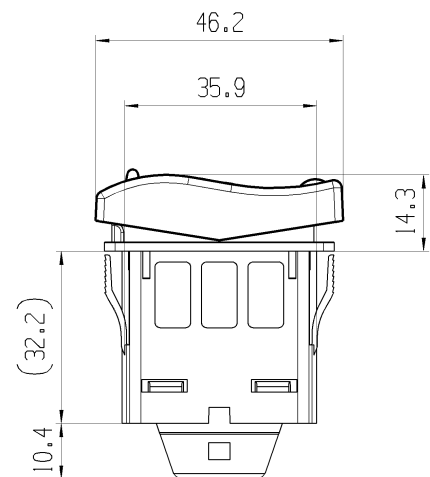
ECO

PUSH 'N' DRIVE

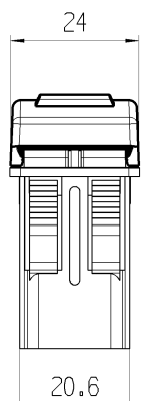
Blatt 01: Allgemeine Angaben  
Sheet 01: General informations



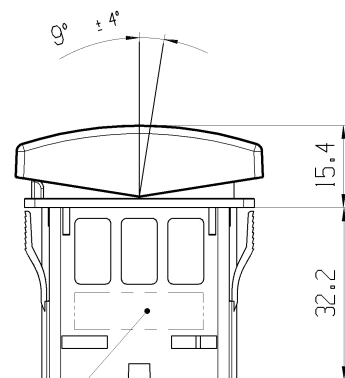
Schaltkreis  
Schaltkreis Beispiel. Mehr Auswahl auf Blatt 02, 03, 07 & 08  
Circuit diagram  
Circuit example. more choices in sheet 02, 03, 07 & 08



Ausfuehrung mit Kappe A und abgedichteten Stecker  
Version with cap A & sealed connector



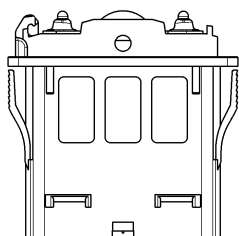
Ausfuehrung mit Kappe A  
Version with cap A



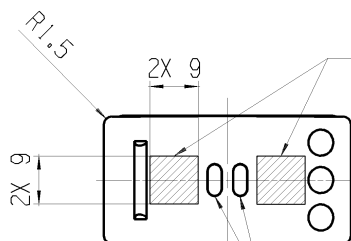
Ausfuehrung mit Kappe B  
Version with cap B

3250.XXXX Teilnummer  
Herstellungsort /-jahr /-woche /-tag  
Datumskodierung (z.B: T11025)  
Schalterspannung und Nennstrom  
Normale Beschriftung, aehnlich wie DIN 1451  
3250.XXXX Part Number  
Manufacturing location, Year, week, day  
date code (Ex: T11025)  
Switch Voltage and Current Rating  
Straight font, similar to DIN 1451

Umtastungskodierung fuer Kappe  
Keying feature for cap



Ausfuehrung ohne Kappe  
Version without cap



Symbolbereich  
gelaserte Beschriftung  
Area for symbol  
laser marking

Funktionale Beleuchtung  
Functional illumination  
light pipes.

Empfohlene Wanddicke:  
Suggested wall thicknesses:  
1,2,3,4,5,6 mm

Empfohlene Wanddicke mit Dichtung:  
Suggested panel thicknesses with gasket:  
1,2,3,4,5 mm

Panel Thickness

Empfohlener Ausschnitt  
fuer Rastbefestigung  
(Grat gegenueber  
Bestueckungsseite)  
Recommended cut-out for  
snap-in ledge perpendicular  
to snap-in direction

Kappe  
Marquardtnummer: 20x.xxx.xxx  
Mehr Info: siehe Blatt 04  
Marquardt part number: 20x.xxx.xxx  
Further cap info: see sheet 04

Grundschafter der Serie 3250  
ohne Kappe  
Basic switch of the series 3250  
without cap

Dichtung  
Marquardtnummer: 343.171.011  
Aussonabmessungen (42,6 x 23,9 x 1,5)  
Gasket  
Marquardt part number: 343.171.011  
External dimensions (42,6 x 23,9 x 1,5)

Steckergehaeuse  
Marquardtnummer: 217.849.011  
Steckhuelse: Tyco Timer Contact (AMP MCP2.8)  
Switch Connector  
Marquardt part number: 217.849.011  
Receptacle: Tyco Timer Contact (AMP MCP2.8)

Einzel Adapterrahmen  
Marquardtnummer 217.879.011  
Mehr Info. Siehe Blatt 05  
Single adapter  
Marquardt part number: 217.879.011  
Further info: see sheet 05

LED Kappenbeleuchtung  
Symbol Beispiel. Mehr  
Symbole auf Blatt 06  
LED cap illumination  
symbol example. more  
symbols in sheet 06

Allgemeine Kenndaten  
General Features

Lagerungstemperatur: -40° C to 85° C  
Storage Temperature: -40° C to 85° C  
Betriebstemperatur: -35° C to 70° C  
Operating Temperature: -35° C to 70° C

Schutzklasse der mit Dichtung EN 60529: IP 66, 67  
Protection Class with gasket per EN 60529: IP 66, 67

Elektrische Eigenschaften  
Electrical Specifications

12 oder 24 Volt Gleichstrom wie auf dem Schalter erwaehnt  
12 or 24 Vdc as noted per switch

Flachstecker: flache Anschuesse 3 x 0.8± 0.025  
versilbert  
Terminals: flat connector 3 x 0.8± 0.025  
silver plated

Schaltungsart: Schnappen  
Switch Type: Snap action

Kontaktbestueckung  
contact fitting

K1 : AgNi - Kontakte / contact  
K2 : Ag.gal Au - Kontakte / contact  
K3 : AgSnO2 - Kontakte / contact

Belastungstabelle  
charging table

Lebensdauer: elektr. > 50.000 Zyklen  
mech. > 500.000 Zyklen  
Endurance: elect. > 50.000 cycle  
mech. > 500.000 cycle

| Belastungsart /<br>charging type | Kontaktart / contact type |       |
|----------------------------------|---------------------------|-------|
|                                  | K1                        | K3    |
| Lampenlast /<br>lamp load        | ≤ 4A                      | ≤ 7,5 |
| Ohmsche Last /<br>resistive load | ≤ 10A                     | ≤ 20A |

K2: nur Sicherheitsschalter  
(zwischen 10mA - 100mA); seltene Betaetigung  
only safety switch  
between 10mA - 100mA; seldom actuated

Zusätzliche Angaben  
Additional informations

Blatt 02-03: Schaltkreise  
Blatt 04: Kappen  
Blatt 05: Adapterrahmen  
Blatt 06: Symbole

Sheet 02, 03, 07 & 08: Circuits  
Sheet 04: Caps  
Sheet 05: Adapters  
Sheet 06: Symbols

|                                          |                 |            |                                                |                                               |                 |              |                                      |                       |                |                                     |       |           |
|------------------------------------------|-----------------|------------|------------------------------------------------|-----------------------------------------------|-----------------|--------------|--------------------------------------|-----------------------|----------------|-------------------------------------|-------|-----------|
| fuer Form und Lage<br>FOR SHAPE AND LOC. |                 | 0.1        | Allgemeintoleranzen<br>UNTOLERANCED DIMENSIONS |                                               |                 |              | Pause COPY                           | Blatt SHEET<br><br>01 | TYP K          | Zeichn./DRAWING NO.<br><br>32500000 | Ind c |           |
|                                          |                 |            | PROJEKTION                                     | Abmasse und Nennmassbereiche<br>Angaben in mm | Laenge LENGTH   | Radien RADII |                                      |                       |                |                                     |       |           |
| fuer Winkel FOR ANGLE<br>± 2             |                 |            | ALL DIMENSIONS ARE IN MILLIMETRES              | 0-6 ± 0.2                                     | 0-6 ± 0.2       | 0-6 ± 0.2    | Original Din A2<br>SCALE 1:1<br>30mm | 0 10 20               | BEDIENSCHALTER | Panel Switch                        |       | MARQUARDT |
|                                          |                 |            |                                                | >6-15 ± 0.4                                   | >6-15 ± 0.4     | >6-15 ± 0.4  |                                      |                       |                |                                     |       |           |
| c                                        | 88710           | 07/30/14   | LIMB                                           |                                               |                 |              | CAD: NX V8.5                         |                       |                |                                     |       |           |
| b                                        | 85571           | 10/24/13   | LIMB                                           |                                               |                 |              | gez./DRAWN BY 03/09/11 LIMB          |                       |                |                                     |       |           |
| a                                        | 75365           | 10/13/11   | BURK                                           |                                               |                 |              | gepr./CHECKED BY                     |                       |                |                                     |       |           |
|                                          | 71984           | 05/06/11   | LIMB                                           |                                               |                 |              | Ersatz fuer/REPLACEMENT OF           |                       |                |                                     |       |           |
| Ausg. 1550E                              | Aenderung 1550E | gez. 1550E | REVISION                                       | Ausg. 1550E                                   | Aenderung 1550E | gez. 1550E   | REVISION                             |                       |                |                                     |       |           |