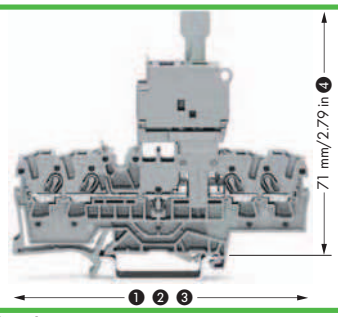



**Fuse plug dimensions:**
1 66.5 mm/2.62 in for 2002-1661
2 87.5 mm/3.45 in for 2002-1861
3 72.9 mm/2.87 in for 2002-1961
4 with inserted fuse plug

Using pluggable fuse holders with rail-mount terminal blocks for control circuit protection is highly advantageous for the user since the function and the wiring are accomplished by two separate parts:

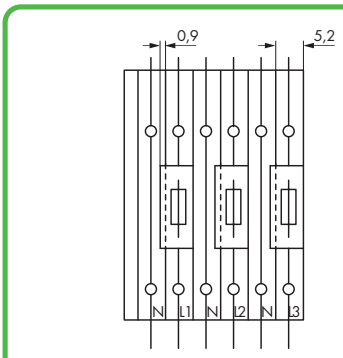
- No additional cost for assembly and wiring
- No risk of accidental contact with live parts during disconnection of fuse plug
- If exchanging a defective fuse, the fuse plug is completely separated from the carrier terminal block. This provides safe fuse changeout away from current carrying parts.
- The fuse plug can be removed by service personnel, avoiding unintentional reclosing of the circuit by another person.
- Quick replacement a fuse by using a prepared "stand-by plug."

The following fuse plug features provide quick and safe handling:

- Optional LED indicates blown fuse
- Marking slot on the fuse plug for clear coordination to the correct carrier terminal block
- Two touch-proof test slots
- High density with only 6.1 mm/0.24 in width of terminal block/fuse plug
- Instead of a fuse, a shorting link may be used as a disconnect plug.

**Miniature metric fuses 5 x 20**

| Series<br>Item No. | Overload and short circuit protection | | Short circuit protection only | |
|---|---|---|---|---|
| | Individual argmt. | Group argmt. | Individual argmt. | Group argmt. |
| | Fuse terminal blocks | | | |
| **2004-911**<br>**2004-911/....-....** | 1.6 W | 1.6 W | 2.5 W | 2.5 W |

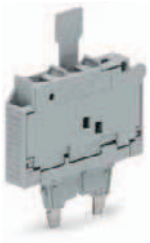



Open side of terminal block left

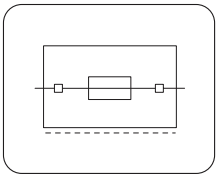
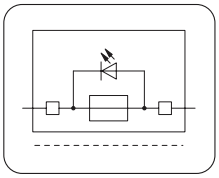
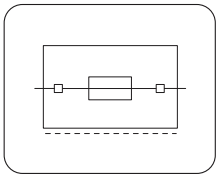
**Please note:**
The extra width of the plug (6.1 mm/0.24 in compared to 5.2 mm/0.2 in for carrier terminal blocks) must be compensated for by intermediate plates (1 mm/0.039 in) when building an assembly of carrier terminal blocks equipped with fuse plugs.

# TOPJOB®S
# Fuse Plugs on Carrier Terminal Blocks 6 (10) mm²
# 2006 Series

| Fuse plug with pull-tab | Fuse plug with pull-tab | Fuse plug with pull-tab |
|---|---|---|
| 800 V / $I_N$ 10 A<br>Plug width 7.4 mm / 0.291 in | 800 V / $I_N$ 10 A<br>Plug width 7.4 mm / 0.291 in | 800 V / $I_N$ 10 A<br>Plug width 10.4 mm / 0.409 in |





| Item No. | | Pack. Unit |
|---|---|---|
| **Fuse plug with pull-tab** | | |
| Nominal voltage and current are given by the fuse. | | |
| for miniature metric fuses 5 x 20 mm | | |
| gray | **2006-911** | 25 |
| for miniature metric fuses 5 x 30 mm | | |
| gray | **2006-921** | 25 |
| for miniature metric fuses 1/4" x 11/4" | | |
| gray | **2006-931** | 25 |

| Item No. | | Pack. Unit |
|---|---|---|
| **Fuse plug with pull-tab,** gray, | | |
| with indicator lamp | | |
| Nominal voltage and current are given by the LED or fuse. | | |
| Leakage current in case of blown fuse: LED 2 mA, | | |
| for miniature metric fuses 5 x 20 mm | | |
| 12 - 30 V | **2006-911/1000-541** | 25 |
| 30 - 65 V | **2006-911/1000-542** | 25 |
| 120 V | **2006-911/1000-867** | 25 |
| 230 V | **2006-911/1000-836** | 25 |
| for miniature metric fuses 5 x 30 mm | | |
| 12 - 30 V | **2006-921/1000-541** | 25 |
| 30 - 65 V | **2006-921/1000-542** | 25 |
| 120 V | **2006-921/1000-867** | 25 |
| 230 V | **2006-921/1000-836** | 25 |
| 380 - 500 V | **2006-921/1000-859** | 25 |
| for miniature metric fuses 1/4" x 11/4" | | |
| 12 - 30 V | **2006-931/1000-541** | 25 |
| 30 - 65 V | **2006-931/1000-542** | 25 |
| 120 V | **2006-931/1000-867** | 25 |
| 230 V | **2006-931/1000-836** | 25 |
| 380 - 500 V | **2006-931/1000-859** | 25 |

| Item No. | | Pack. Unit |
|---|---|---|
| **Fuse plug with pull-tab** | | |
| Nominal voltage and current are given by the fuse. | | |
| for miniature metric fuses 1/4" x 11/4" | | |
| gray | **2006-931/099-000** | 25 |

## Item-Specific Accessories

| | | | |
|---|---|---|---|
| **End and intermediate plate,** 1 mm thick | | | |
| orange | **2006-1692** | 100 (4x25) | |
| gray | **2006-1691** | 100 (4x25) | |



## Item-Specific Accessories

| | | | |
|---|---|---|---|
| **End and intermediate plate,** 1 mm thick | | | |
| orange | **2006-1692** | 100 (4x25) | |
| gray | **2006-1691** | 100 (4x25) | |



## Item-Specific Accessories

| | | | |
|---|---|---|---|
| **Intermediate plate,** 2.9 mm thick | | | |
| orange | **2006-1696** | 100 (4x25) | |
| gray | **2006-1695** | 100 (4x25) | |



## Accessories fuse plugs

Appropriate marking systems: WMB/Marking strips
(see Section 13)

| | | | |
|---|---|---|---|
| **End plate for fuse terminal blocks,** | | | |
| 2 mm thick | | | |
| orange | **2006-992** | 100 (4x25) | |
| gray | **2006-991** | 100 (4x25) | |



| | | | |
|---|---|---|---|
| **Shorting link,** 5 x 20 mm, | | | |
| if the fuse plug is used as disconnect plug | | | |
| $I_N$ 6.3 A | **281-503** | 250 (10x25) | |



| | | | |
|---|---|---|---|
| **Screwless end stop,** | | | |
| for DIN 35 rail, | | | |
| 6 mm wide | | | |
| gray | **249-116** | 100 (4x25) | |



| | | | |
|---|---|---|---|
| **2-conductor carrier terminal block,** | | | |
| 0.5 - 6 (10) mm² / AWG 20 - 8 | | | |
| Terminal block width 7.5 mm / 0.295 in | | | |
| gray | **2006-1661** | 25 | |



| | | | |
|---|---|---|---|
| **WMB Multi marking system,** | | | |
| 10 strips with 10 markers per card, | | | |
| stretchable 5 - 5.2 mm | | | |
| plain | **793-5501** | 5 | |



| | | | |
|---|---|---|---|
| **Screwless end stop,** | | | |
| for DIN 35 rail, | | | |
| 10 mm wide | | | |
| gray | **249-117** | 50 (2x25) | |



For list of approvals and user guide, see pages 634 to 637.

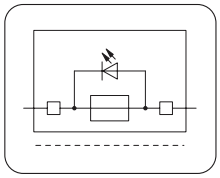
**Fuse plug with pull-tab**

**800 V / $I_N$ 10 A**
**Plug width 10.4 mm / 0.409 in**

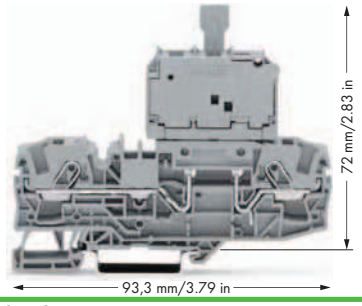
Using pluggable fuse holders with rail-mounted terminal blocks for control circuit protection is highly advantageous for the user, as the function and the wiring are accomplished by two separate parts:
- No additional cost for assembly and wiring
- No risk of accidental contact with live parts during disconnection of fuse plug
- If exchanging a defective fuse, the fuse plug is completely separated from the carrier terminal block. This provides changeout away from current carrying parts.
- The fuse plug can be removed by service personnel, avoiding unintentional reclosing of the circuit by another person
- Quick replacement a fuse by using a prepared "stand-by plug."

The following features of the fuse plug ensure quick and safe use:
- Optional LED indicates blown fuse
- Markable fuse plug for clear coordination to the correct carrier terminal block
- Two touch-proof test slots
- High density with only 7.5 mm/0.295 in width of terminal block and fuse plug width 7.4 (10.4) mm
- Instead of a fuse, a shorting link may be used as a disconnect plug





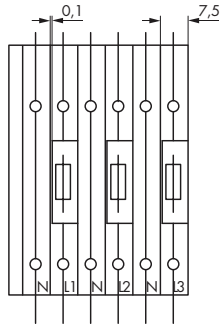
| Item No. | | Pack. Unit |
|---|---|---|
| **Fuse plug with pull-tab,** gray, with indicator lamp | | |
| Nominal voltage and current are given by the LED or fuse. Leakage current in case of blown fuse: LED 2 mA, for miniature metric fuses 1/4" x 11/4" | | |
| 12 - 30 V | **2006-931/1099-541** | 25 |
| 30 - 65 V | **2006-931/1099-542** | 25 |
| 120 V | **2006-931/1099-867** | 25 |
| 230 V | **2006-931/1099-836** | 25 |
| 380 - 500 V | **2006-931/1099-859** | 25 |




**Fuse plug dimensions**

**Miniature metric fuse**

| Series Item No. | | Overload and short circuit protection | | Short circuit protection only | |
|---|---|---|---|---|---|
| | | Individual argmt. | Group argmt. | Individual argmt. | Group argmt. |
| | | Fused disconnect terminal blocks | | | |
| **2006-911** | 7.5 | 1.6 W | 1.6 W | 2.5 W | 2.5 W |
| **2006-921** | 7.5 | 1.6 W | 1.6 W | 2.5 W | 2.5 W |
| **2006-931** | 7.5 | 1.6 W | 1.6 W | 2.5 W | 2.5 W |
| **2006-931 /099-...** | 10.4 | 2.5 W | 2.5 W | 2.5 W | 2.5 W |
| **2006-931 /1099-...** | 10.4 | 2.5 W | 2.5 W | 2.5 W | 2.5 W |




Open side of terminal block left

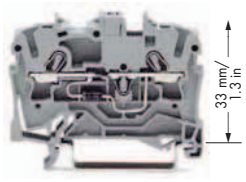
## Item-Specific Accessories

| | | | |
|---|---|---|---|
| **Intermediate plate,** 2.9 mm thick | | | |
|  | orange | **2006-1696** | 100 (4x25) |
| | gray | **2006-1695** | 100 (4x25) |

**When using the 10.4 mm/0.409 in wide plug, please note:**
The extra width of the plug (10.4 mm/0.409 in compared to 7.5 mm/0.295 in for carrier terminal blocks) must be compensated for by intermediate plates (2.9 mm) when building an assembly of carrier terminal blocks equipped with fuse plugs.

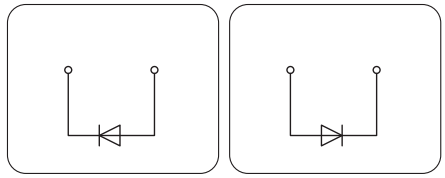
# TOPJOB®S
# Diode Terminal Blocks and LED Terminal Blocks 1.5 (2.5) mm²
# 2001 Series

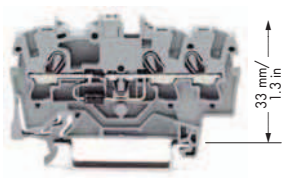
| | | |
|---|---|---|
| **0.25 - 1.5 (2.5) mm² ❶ \| AWG 22 - 14**<br>**$U_N$ 250 V, $U_{RM}$ 1000 V**<br>**1N4007 - 0.5 A continuous current**<br>**Terminal block width 4.2 mm / 0.165 in**<br>**9 - 11 mm / 0.39 in ❷** | **0.25 - 1.5 (2.5) mm² ❶ \| AWG 22 - 14**<br>**$U_N$ 250 V, $U_{RM}$ 1000 V**<br>**1N4007 - 0.5 A continuous current**<br>**Terminal block width 4.2 mm / 0.165 in**<br>**9 - 11 mm / 0.39 in ❷** | **0.25 - 1.5 (2.5) mm² ❶ \| AWG 22 - 14**<br>**24 VDC**<br>**$I_F$ 0.025 A max.**<br>**Terminal block width 4.2 mm / 0.165 in**<br>**9 - 11 mm / 0.39 in ❷** |




48,5 mm/1.91 in

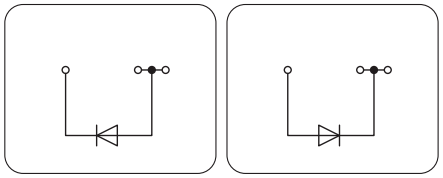
Circuit I Circuit II

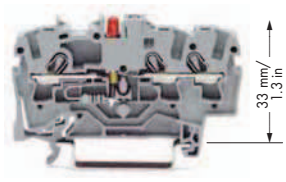





59,5 mm/2.34 in

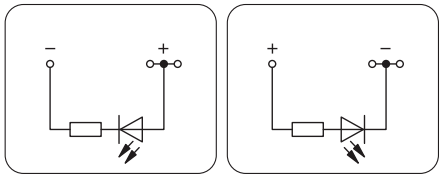
Circuit I Circuit II






59,5 mm/2.34 in

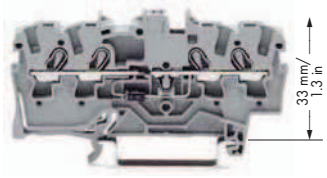
Circuit I Circuit II




| Item No. | | Pack. Unit |
|---|---|---|
| **2-conductor diode terminal block with 1N4007 diode,** gray | | |
| ◯ Circuit I | **2001-1211/1000-411** | 100 |
| ◯ Circuit II | **2001-1211/1000-410** | 100 |

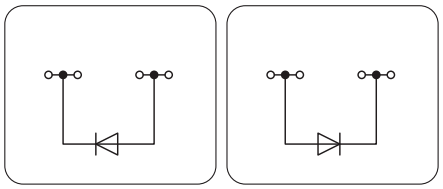
| Item No. | | Pack. Unit |
|---|---|---|
| **3-conductor diode terminal block with 1N4007 diode,** gray | | |
| ◯ Circuit I | **2001-1311/1000-411** | 100 |
| ◯ Circuit II | **2001-1311/1000-410** | 100 |

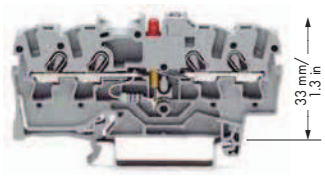
| Item No. | | Pack. Unit |
|---|---|---|
| **3-conductor LED terminal block with red LED,** 24 VDC, gray<br>Notice: This LED terminal block cannot be commoned with push-in type jumper bars. | | |
| ◯ Circuit I | **2001-1321/1000-413** | 100 |
| ◯ Circuit II | **2001-1321/1000-434** | 100 |




70 mm/2.76 in

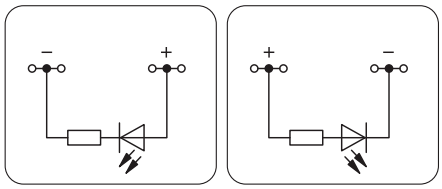
Circuit I Circuit II






70 mm/2.76 in

Circuit I Circuit II



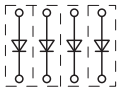

| | Item No. | Pack. Unit |
|---|---|---|
| **Through terminal blocks with same profile,** see page 56 | | |

| Item No. | | Pack. Unit |
|---|---|---|
| **4-conductor diode terminal block with 1N4007 diode,** gray | | |
| ◯ Circuit I | **2001-1411/1000-411** | 100 |
| ◯ Circuit II | **2001-1411/1000-410** | 100 |

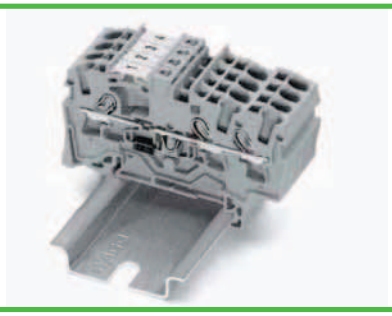
| Item No. | | Pack. Unit |
|---|---|---|
| **4-conductor LED terminal block with red LED,** 24 VDC, gray<br>Notice: This LED terminal block cannot be commoned with push-in type jumper bars. | | |
| ◯ Circuit II | **2001-1421/1000-413** | 100 |
| ◯ Circuit I | **2001-1421/1000-434** | 100 |

For list of approvals and user guide, see pages 634 to 637.

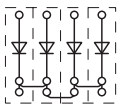
# Circuit Configuration Examples
# Diode Terminal Blocks and LED Terminal Blocks



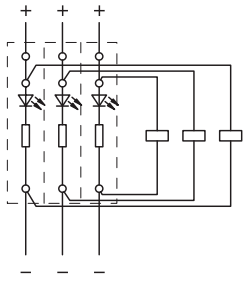
**Open diode gates can be created using the following terminal blocks:**
**2001-1211/1000-410 or**
**2001-1211/1000-411**



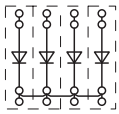
These diode terminal blocks have been specially developed for custom diode circuits, such as lamp test and collective fault signal circuits.
Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits.



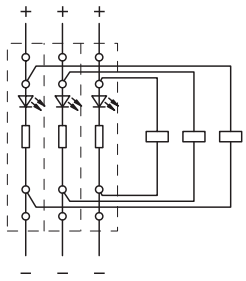
**Polarized diode gates with common cathode can be created using the following terminal blocks:**
**2001-1311/1000-410 or**
**2001-1311/1000-411**



**Circuit-related voltage indications can be created using the following terminal blocks:**
**2001-1321/1000-434 or**
**2001-1321/1000-413**



**Polarized diode gates with common cathode can be created using the following terminal blocks:**
**2001-1411/1000-410 or**
**2001-1411/1000-411**



**Circuit-related voltage indications can be created using the following terminal blocks:**
**2001-1421/1000-434 or**
**2001-1421/1000-413**

❶ Conductor sizes: 0.25 mm² – 2.5 mm² "s + f-st"; Push-in conductor sizes: 0.5 mm² – 2.5 mm² "s" and 0.75 mm² – 1.5 mm² "insulated ferrules, 12 mm"

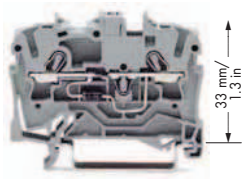
❷ Strip length, see packaging or instructions.

## 2001 Series Accessories

| | | | |
|---|---|---|---|
| **Insulation stop,** | | | |
|  | 5 pcs/strip, 0.25 - 0.5 mm² light gray | **2001-171** | 200 (8x25) |
| **Push-in type jumper bar,** insulated, | | | |
|  | $I_N$ 18 A, light gray | | |
| | 2-way | **2001-402** | 200 (8x25) |
| | 3-way | **2001-403** | 200 (8x25) |
| | 4-way | **2001-404** | 200 (8x25) |
| | 5-way | **2001-405** | 100 (4x25) |
| | 6-way | **2001-406** | 100 (4x25) |
| | 7-way | **2001-407** | 100 (4x25) |
| | 8-way | **2001-408** | 100 (4x25) |
| | 9-way | **2001-409** | 100 (4x25) |
| | 10-way | **2001-410** | 100 (4x25) |
| **Push-in type jumper bar,** insulated, | | | |
|  | $I_N$ 18 A, light gray | | |
| | from 1 to 3 | **2001-433** | 200 (8x25) |
| | from 1 to 4 | **2001-434** | 200 (8x25) |
| | from 1 to 5 | **2001-435** | 100 (4x25) |
| | from 1 to 6 | **2001-436** | 100 (4x25) |
| | from 1 to 7 | **2001-437** | 100 (4x25) |
| | from 1 to 8 | **2001-438** | 100 (4x25) |
| | from 1 to 9 | **2001-439** | 100 (4x25) |
| | from 1 to 10 | **2001-440** | 100 (4x25) |

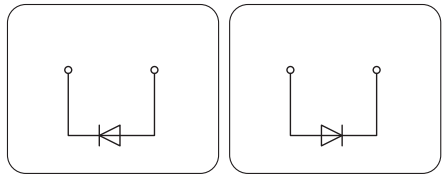
# TOPJOB®S
# Diode Terminal Blocks and LED Terminal Blocks 2.5 (4) mm²
# 2002 Series

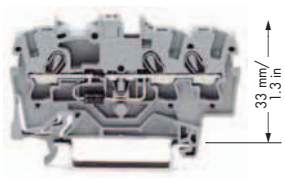
| | | |
|---|---|---|
| **0.25 - 2.5 (4) mm² ❶ \| AWG 22 - 12**<br>**$U_N$ 250 V, $U_{RM}$ 1000 V**<br>**1N4007 - 0.5 A continuous current**<br>**Terminal block width 5.2 mm / 0.205 in**<br>**10 - 12 mm / 0.43 in ❷** | **0.25 - 2.5 (4) mm² ❶ \| AWG 22 - 12**<br>**$U_N$ 250 V, $U_{RM}$ 1000 V**<br>**1N4007 - 0.5 A continuous current**<br>**Terminal block width 5.2 mm / 0.205 in**<br>**10 - 12 mm / 0.43 in ❷** | **0.25 - 2.5 (4) mm² ❶ \| AWG 22 - 12**<br>**24 VDC**<br>**$I_F$ 0.025 A max.**<br>**Terminal block width 5.2 mm / 0.205 in**<br>**10 - 12 mm / 0.43 in ❷** |




48,5 mm/1.91 in

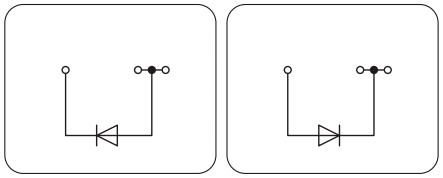
Circuit I Circuit II

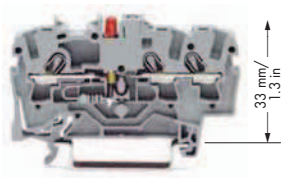





59,5 mm/2.34 in

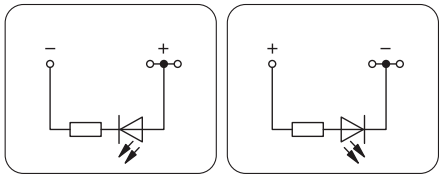
Circuit I Circuit II






59,5 mm/2.34 in

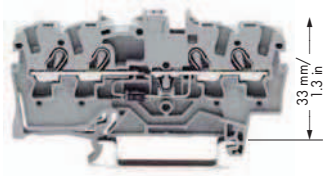
Circuit I Circuit II




| Item No. | | Pack. Unit |
|---|---|---|
| **2-conductor diode terminal block with 1N4007 diode,** gray | | |
| ◯ Circuit I | **2002-1211/1000-411** | 100 |
| ◯ Circuit II | **2002-1211/1000-410** | 100 |

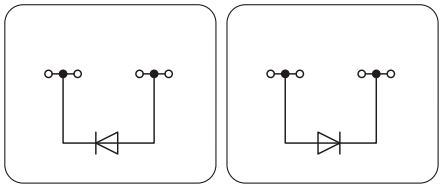
| Item No. | | Pack. Unit |
|---|---|---|
| **3-conductor diode terminal block with 1N4007 diode,** gray | | |
| ◯ Circuit I | **2002-1311/1000-411** | 100 |
| ◯ Circuit II | **2002-1311/1000-410** | 100 |

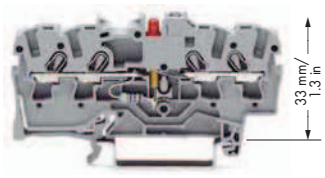
| Item No. | | Pack. Unit |
|---|---|---|
| **3-conductor LED terminal block with red LED,** 24 VDC, gray<br>Notice: This LED terminal block cannot be commoned with push-in type jumper bars. | | |
| ◯ Circuit II | **2002-1321/1000-413** | 100 |
| ◯ Circuit I | **2002-1321/1000-434** | 100 |




70 mm/2.76 in

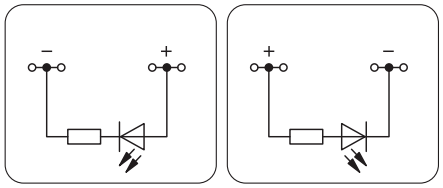
Circuit I Circuit II






70 mm/2.76 in

Circuit I Circuit II




| | Item No. | | Pack. Unit |
|---|---|---|---|
| **Through terminal blocks with same profile,** see page 58 | **4-conductor diode terminal block with 1N4007 diode,** gray | | |
| | ◯ Circuit I | **2002-1411/1000-411** | 100 |
| | ◯ Circuit II | **2002-1411/1000-410** | 100 |

| Item No. | | Pack. Unit |
|---|---|---|
| **4-conductor LED terminal block with red LED,** 24 VDC, gray<br>Notice: This LED terminal block cannot be commoned with push-in type jumper bars. | | |
| ◯ Circuit II | **2002-1421/1000-413** | 100 |
| ◯ Circuit I | **2002-1421/1000-434** | 100 |

For list of approvals and user guide, see pages 634 to 637.