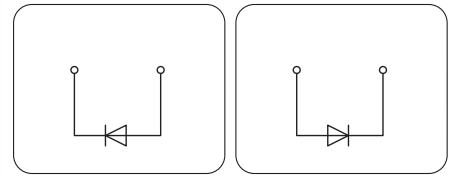
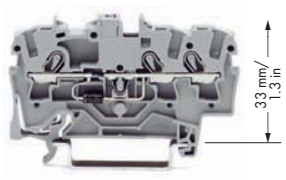
TOPJOB®S
Diode Terminal Blocks and LED Terminal Blocks 1.5 (2.5) mm²
2001 Series

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

48,5 mm/1.91 in

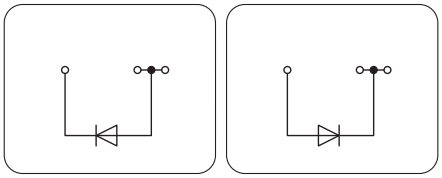
Circuit I Circuit II





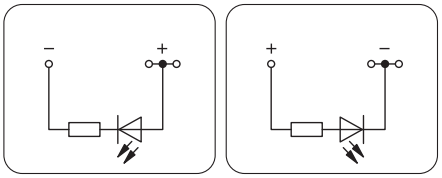
59,5 mm/2.34 in

Circuit I Circuit II



59,5 mm/2.34 in

Circuit I Circuit II



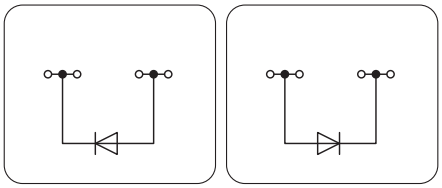
Item No.		Pack. Unit
2-conductor diode terminal block with 1N4007 diode, gray		
◯ Circuit I	**2001-1211/1000-411**	100
◯ Circuit II	**2001-1211/1000-410**	100

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 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

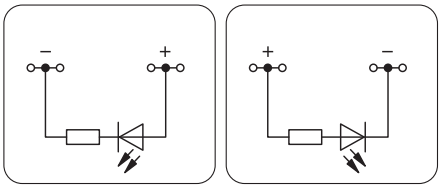
70 mm/2.76 in

Circuit I Circuit II



70 mm/2.76 in

Circuit I Circuit II

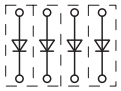


	Item No.		Pack. Unit
Through terminal blocks with same profile, see page 56	**4-conductor diode terminal block with 1N4007 diode,** gray		
	◯ Circuit I	**2001-1411/1000-411**	100
	◯ Circuit II	**2001-1411/1000-410**	100

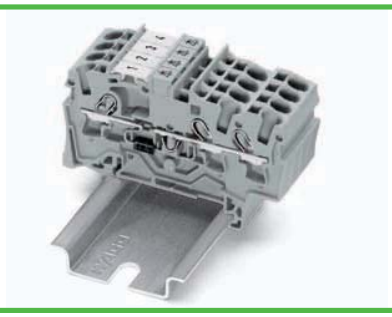
Item No.		Pack. Unit
4-conductor LED terminal block with red LED, 24 VDC, gray Notice: This LED terminal block cannot be commoned with push-in type jumper bars.		
◯ Circuit II	**2001-1421/1000-413**	100
◯ Circuit I	**2001-1421/1000-434**	100

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

Circuit Configuration Examples
Diode Terminal Blocks and LED Terminal Blocks



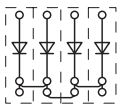
Open diode gates can be created using the following terminal blocks:
2001-1211/1000-410 or
2001-1211/1000-411



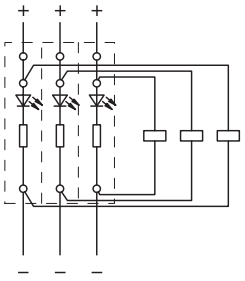
These diode terminal blocks have been specially developed for custom diode circuits, such as lamp test and collective fault signal circuits.
Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits.

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"

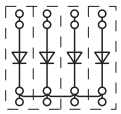
❷ Strip length, see packaging or instructions.



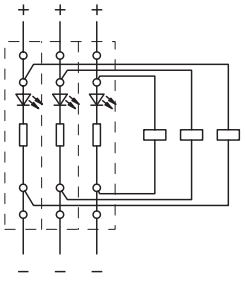
Polarized diode gates with common cathode can be created using the following terminal blocks:
2001-1311/1000-410 or
2001-1311/1000-411



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



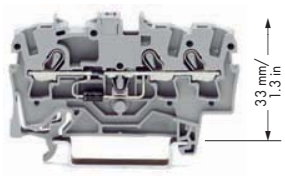
Circuit-related voltage indications can be created using the following terminal blocks:
2001-1421/1000-434 or
2001-1421/1000-413

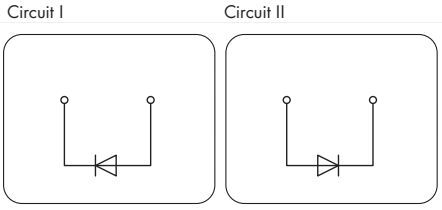
2001 Series Accessories

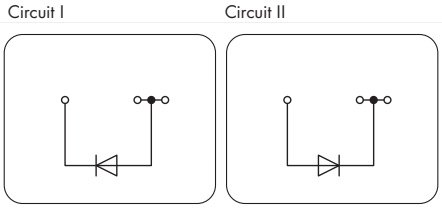
Insulation stop,			
	5 pcs/strip, 0.25 - 0.5 mm²		
	light gray	**2001-171**	200 (8x25)
Push-in type jumper bar, insulated,			
	I_N 18 A, light gray		
	2-way	**2001-402**	200 (8x25)
	3-way	**2001-403**	200 (8x25)
	4-way	**2001-404**	200 (8x25)
	5-way	**2001-405**	100 (4x25)
	6-way	**2001-406**	100 (4x25)
	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)

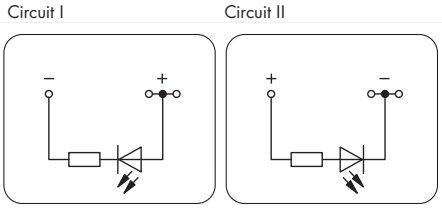
TOPJOB®S
Diode Terminal Blocks and LED Terminal Blocks 2.5 (4) mm²
2002 Series

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





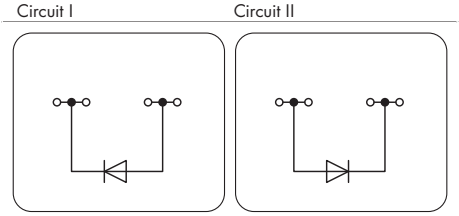


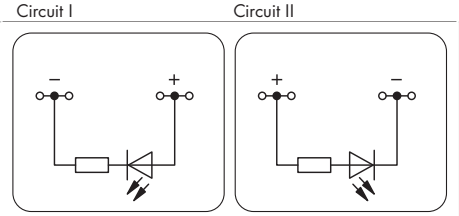


Item No.		Pack. Unit
2-conductor diode terminal block with 1N4007 diode, gray		
◯ Circuit I	**2002-1211/1000-411**	100
◯ Circuit II	**2002-1211/1000-410**	100

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 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



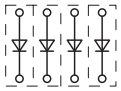


	Item No.		Pack. Unit
Through terminal blocks with same profile, see page 58	**4-conductor diode terminal block with 1N4007 diode,** gray		
	◯ Circuit I	**2002-1411/1000-411**	100
	◯ Circuit II	**2002-1411/1000-410**	100

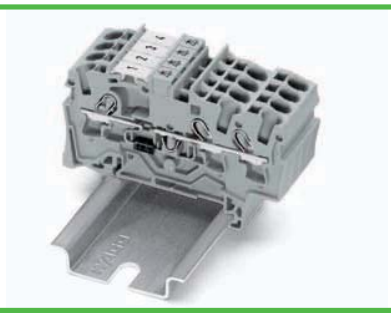
Item No.		Pack. Unit
4-conductor LED terminal block with red LED, 24 VDC, gray Notice: This LED terminal block cannot be commoned with push-in type jumper bars.		
◯ Circuit II	**2002-1421/1000-413**	100
◯ Circuit I	**2002-1421/1000-434**	100

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

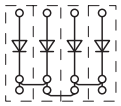
Circuit Configuration Examples
Diode Terminal Blocks and LED Terminal Blocks



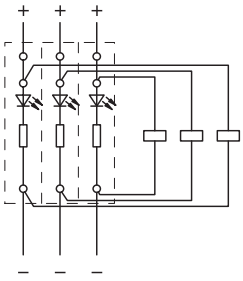
Open diode gates can be created using the following terminal blocks:
2002-1211/1000-410 or
2002-1211/1000-411



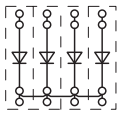
These diode terminal blocks have been specially developed for custom diode circuits, such as lamp test and collective fault signal circuits.



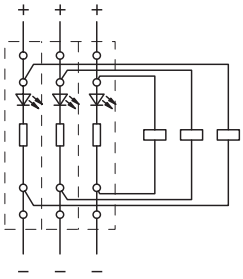
Polarized diode gates with common cathode can be created using the following terminal blocks:
2002-1311/1000-410 or
2002-1311/1000-411



Circuit-related voltage indications can be created using the following terminal blocks:
2002-1321/1000-434 or
2002-1321/1000-413



Polarized diode gates with common cathode can be created using the following terminal blocks:
2002-1411/1000-410 or
2002-1411/1000-411



Circuit-related voltage indications can be created using the following terminal blocks:
2002-1421/1000-434 or
2002-1421/1000-413

❶ Conductor sizes: 0.25 mm² – 4 mm² "s + f-st"; Push-in conductor sizes: 0.75 mm² – 4 mm² "s" and 0.75 mm² – 2.5 mm² "insulated ferrules, 12 mm"

❷ Strip length, see packaging or instructions.

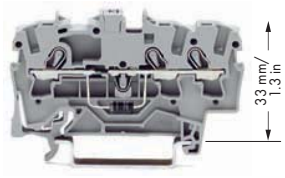
2002 Series Accessories

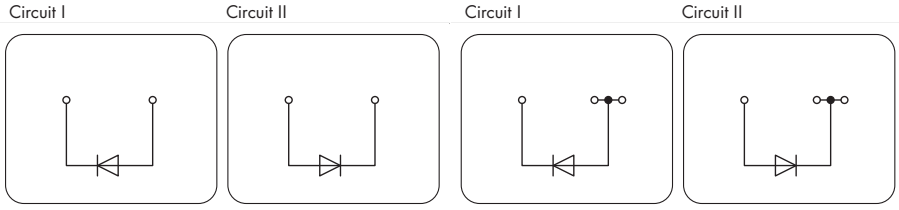
Insulation stop,			
	5 pcs/strip, 0.25 - 0.5 mm² light gray	**2002-171**	200 (8x25)
Insulation stop,			
	5 pcs/strip, 0.75 - 1 mm² dark gray	**2002-172**	200 (8x25)
Push-in type jumper bar, insulated,			
	I_N 25 A, light gray		
	2-way	**2002-402**	200 (8x25)
	3-way	**2002-403**	200 (8x25)
	4-way	**2002-404**	200 (8x25)
	5-way	**2002-405**	100 (4x25)
	6-way	**2002-406**	100 (4x25)
	7-way	**2002-407**	100 (4x25)
	8-way	**2002-408**	100 (4x25)
	9-way	**2002-409**	100 (4x25)
	10-way	**2002-410**	100 (4x25)
Push-in type jumper bar, insulated,			
	I_N 25 A, light gray		
	from 1 to 3	**2002-433**	200 (8x25)
	from 1 to 4	**2002-434**	200 (8x25)
	from 1 to 5	**2002-435**	100 (4x25)
	from 1 to 6	**2002-436**	100 (4x25)
	from 1 to 7	**2002-437**	100 (4x25)
	from 1 to 8	**2002-438**	100 (4x25)
	from 1 to 9	**2002-439**	100 (4x25)
	from 1 to 10	**2002-440**	100 (4x25)

TOPJOB®S
Diode Terminal Blocks 4 (6) mm²
2004 Series

0.5 - 4 (6) mm² ❶ | AWG 20 - 10
U_N 250 V, U_{RM} 1000 V
1N5408 - 1.5 A continuous current
Terminal block width 6.2 mm / 0.244 in
11 - 13 mm / 0.47 in ❷

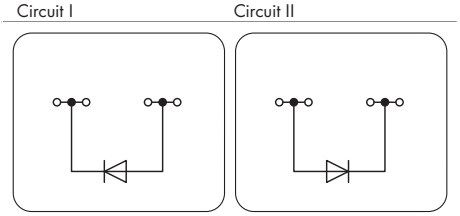
0.5 - 4 (6) mm² ❶ | AWG 20 - 10
U_N 250 V, U_{RM} 1000 V
1N5408 - 1.5 A continuous current
Terminal block width 6.2 mm / 0.244 in
11 - 13 mm / 0.47 in ❷





	Item No.	Pack. Unit
2-conductor diode terminal block with 1N5408		
diode, gray		
Circuit I	**2004-1211/1000-401**	50
Circuit II	**2004-1211/1000-400**	50

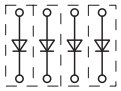
	Item No.	Pack. Unit
3-conductor diode terminal block with 1N5408		
diode, gray		
Circuit I	**2004-1311/1000-401**	50
Circuit II	**2004-1311/1000-400**	50



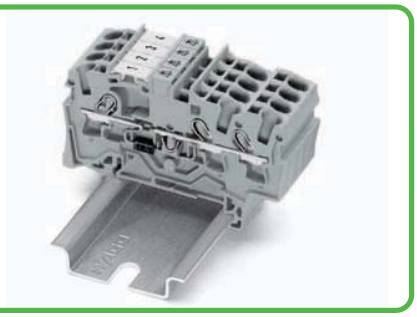
	Item No.	Pack. Unit
Through terminal blocks with same profile,	**4-conductor diode terminal block with 1N5408**	
see page 62	**diode,** gray	
Circuit I	**2004-1411/1000-401**	50
Circuit II	**2004-1411/1000-400**	50

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

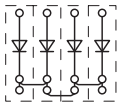
Circuit Configuration Examples
Diode Terminal Blocks



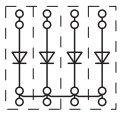
Open diode gates can be created using the following terminal blocks:
2004-1211/1000-400 or
2004-1211/1000-401



These diode terminal blocks have been specially developed for custom diode circuits, such as lamp test and collective fault signal circuits.



Polarized diode gates with common cathode can be created using the following terminal blocks:
2004-1311/1000-400 or
2004-1311/1000-401



Polarized diode gates with common cathode can be created using the following terminal blocks:
2004-1411/1000-400 or
2004-1411/1000-401

❶ Conductor sizes: 0.5 mm² – 6 mm² "s + f-st"; Push-in conductor sizes: 1 mm² – 6 mm² "s" and 0.75 mm² – 2.5 mm² "insulated ferrule, 12 mm"

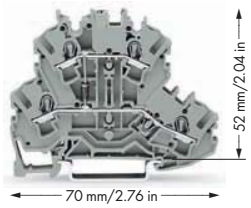
❷ Strip length, see packaging or instructions.

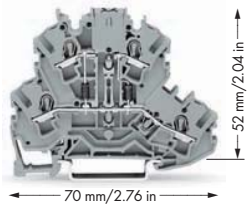
2004 Series Accessories

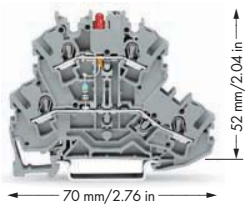
Insulation stop,			
	5 pcs/strip, 0.25 - 0.5 mm² light gray	**2004-171**	200 (8x25)
Insulation stop,			
	5 pcs/strip, 0.75 - 1 mm² dark gray	**2004-172**	200 (8x25)
Push-in type jumper bar, insulated,			
	I_N 32 A, light gray		
	2-way	**2004-402**	200 (8x25)
	3-way	**2004-403**	200 (8x25)
	4-way	**2004-404**	100 (4x25)
	5-way	**2004-405**	100 (4x25)
	6-way	**2004-406**	100 (4x25)
	7-way	**2004-407**	100 (4x25)
	8-way	**2004-408**	100 (4x25)
	9-way	**2004-409**	100 (4x25)
	10-way	**2004-410**	100 (4x25)
Push-in type jumper bar, insulated,			
	I_N 32 A, light gray		
	from 1 to 3	**2004-433**	200 (8x25)
	from 1 to 4	**2004-434**	200 (8x25)
	from 1 to 5	**2004-435**	100 (4x25)
	from 1 to 6	**2004-436**	100 (4x25)
	from 1 to 7	**2004-437**	100 (4x25)
	from 1 to 8	**2004-438**	100 (4x25)
	from 1 to 9	**2004-439**	100 (4x25)
	from 1 to 10	**2004-440**	100 (4x25)
Wire commoning chain, 50 connections,			
	insulated, I_N 8 A black	**210-103**	1
Wire commoning chain, 50 connections,			
	insulated, I_N 8 A blue	**210-123**	1

TOPJOB®S
Double-Deck Diode Terminal Blocks and LED Terminal Blocks 2.5 (4) mm²
2002 Series

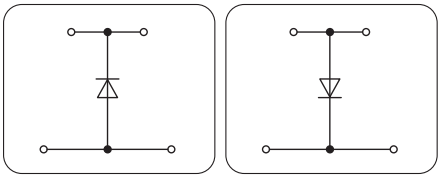
0.25 - 2.5 (4) mm² ❶ | AWG 22 - 12 **U_N 250 V, U_{RM} 1000 V** **1N4007 - 0.5 A continuous current** **Terminal block width 5.2 mm / 0.205 in** **10 - 12 mm / 0.43 in ❷**	**0.25 - 2.5 (4) mm² ❶ | AWG 22 - 12** **U_N 250 V, U_{RM} 1000 V** **1N4007 - 0.5 A continuous current** **Terminal block width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



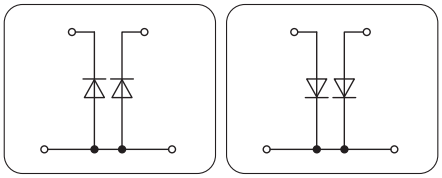




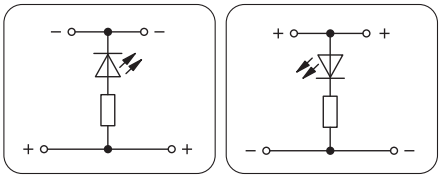
Circuit I Circuit II



Circuit I Circuit II



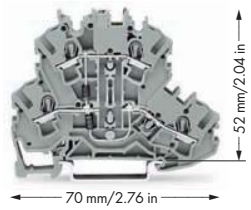
Circuit I Circuit II

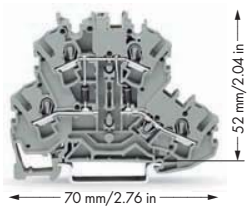


Item No.		Pack. Unit
Double-deck diode terminal block with 1N4007		
diode, gray		
Circuit I	**2002-2211/1000-410**	50
Circuit II	**2002-2211/1000-411**	50

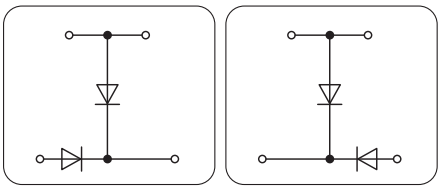
Item No.		Pack. Unit
Double-deck diode terminal block with 2 diodes		
1N4007, gray		
Circuit I	**2002-2213/1000-487**	50
Circuit II	**2002-2213/1000-488**	50

Item No.		Pack. Unit
Double-deck LED terminal block with red LED,		
24 VDC, gray		
Circuit I	**2002-2221/1000-434**	50
Circuit II	**2002-2221/1000-413**	50

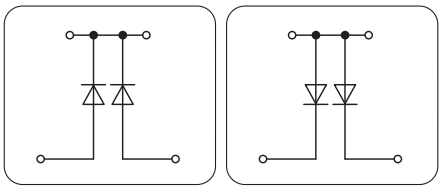




Circuit I Circuit II



Circuit I Circuit II



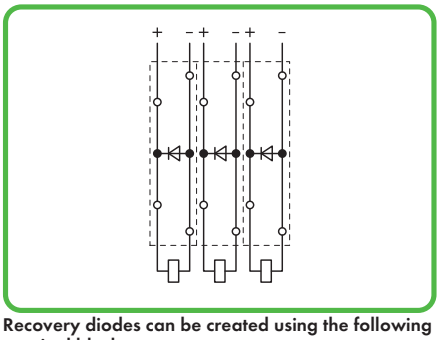
Item No.		Pack. Unit
Double-deck diode terminal block with 2 diodes		
1N4007, gray		
Circuit I	**2002-2214/1000-492**	50
Circuit II	**2002-2214/1000-491**	50

Item No.		Pack. Unit
Double-deck diode terminal block with 2 diodes		
1N4007, gray		
Circuit I	**2002-2214/1000-489**	50
Circuit II	**2002-2214/1000-490**	50

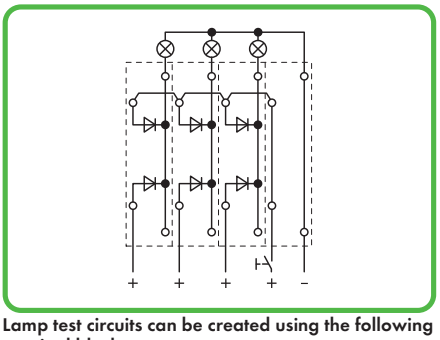
Through terminal blocks with same profile,
see page 72

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

Circuit Configuration Examples
Double-Deck Diode and LED Terminal Blocks



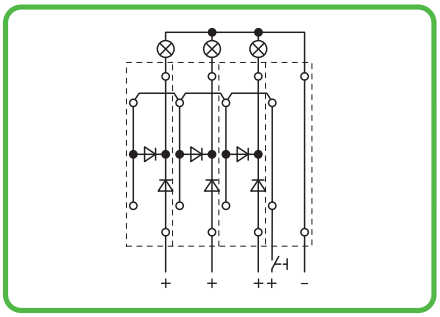
Recovery diodes can be created using the following terminal blocks:
2002-2211/1000-410 or
2002-2211/1000-411



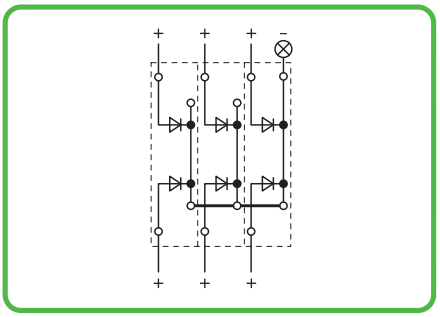
Lamp test circuits can be created using the following terminal blocks:
2002-2213/1000-487 or
2002-2213/1000-488

❶ Conductor sizes: 0.25 mm² – 4 mm² "s + f-st"; Push-in conductor sizes: 0.75 mm² – 4 mm² "s" and 0.75 mm² – 2.5 mm² "insulated ferrules, 12 mm"

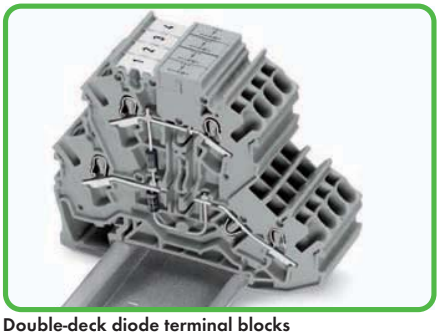
❷ Strip length, see packaging or instructions.



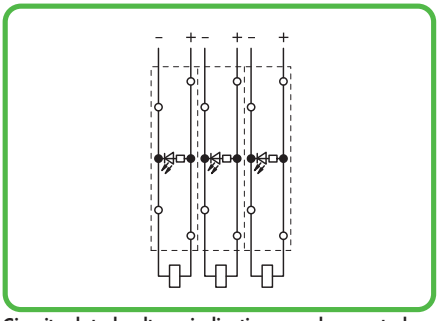
Lamp test circuits can be created using the following terminal blocks:
2002-2214/1000-492 or
2002-2214/1000-491



Collective fault signals can be created using the following terminal blocks:
2002-2214/1000-489 or
2002-2214/1000-490



Double-deck 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.
The terminal blocks provide high-density wiring, while maintaining a width of only 5 mm/0.197 in. Push-in type jumper bars provide additional options for custom circuit design.



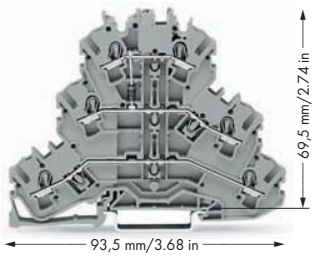
Circuit-related voltage indications can be created using the following terminal blocks:
2002-2221/1000-434 or
2002-2221/1000-413

2002 Series Accessories

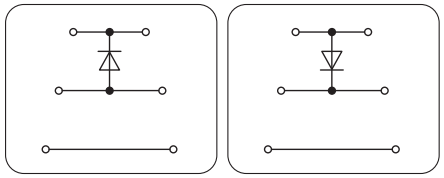
End and intermediate plate, 0.8 mm thick			
	orange	**2002-2292**	100 (4x25)
	gray	**2002-2291**	100 (4x25)
Double-deck marker carrier,			
	pivoting		
	gray	**2002-121**	50 (2x25)
Insulation stop,			
	5 pcs/strip, 0.25 - 0.5 mm²		
	light gray	**2002-171**	200 (8x25)
Insulation stop,			
	5 pcs/strip, 0.75 - 1 mm²		
	dark gray	**2002-172**	200 (8x25)
Push-in type jumper bar, insulated,			
	I_N 25 A, light gray		
	2-way	**2002-402**	200 (8x25)
	3-way	**2002-403**	200 (8x25)
	4-way	**2002-404**	200 (8x25)
	5-way	**2002-405**	100 (4x25)
	6-way	**2002-406**	100 (4x25)
	7-way	**2002-407**	100 (4x25)
	8-way	**2002-408**	100 (4x25)
	9-way	**2002-409**	100 (4x25)
	10-way	**2002-410**	100 (4x25)
Push-in type jumper bar, insulated,			
	I_N 25 A, light gray		
	from 1 to 3	**2002-433**	200 (8x25)
	from 1 to 4	**2002-434**	200 (8x25)
	from 1 to 5	**2002-435**	100 (4x25)
	from 1 to 6	**2002-436**	100 (4x25)
	from 1 to 7	**2002-437**	100 (4x25)
	from 1 to 8	**2002-438**	100 (4x25)
	from 1 to 9	**2002-439**	100 (4x25)
	from 1 to 10	**2002-440**	100 (4x25)

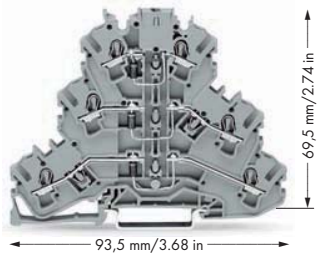
TOPJOB®S
Triple-Deck Diode Terminal Blocks and LED Terminal Blocks 2.5 (4) mm²
2002 Series

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

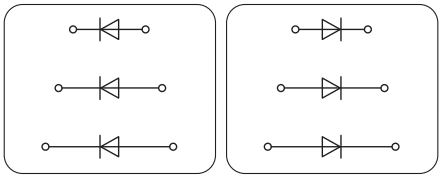


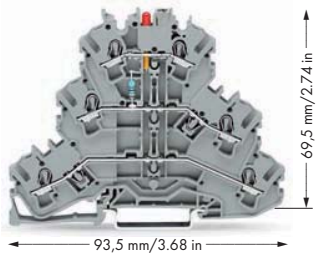
Circuit I Circuit II



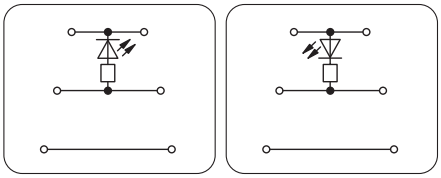


Circuit I Circuit II





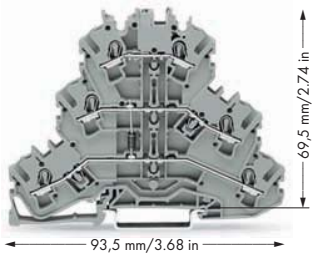
Circuit I Circuit II



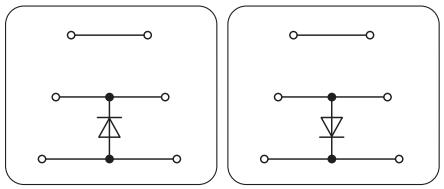
Item No.		Pack. Unit
Triple-deck diode terminal block with 1N4007 diode, gray		
Circuit I	**2002-3211/1000-410**	50
Circuit II	**2002-3211/1000-411**	50

Item No.		Pack. Unit
Triple-deck diode terminal block with 3 diodes 1N4007, gray		
Circuit I	**2002-3212/1000-673**	50
Circuit II	**2002-3212/1000-674**	50

Item No.		Pack. Unit
Triple-deck LED terminal block with red LED, 24 VDC, gray		
Circuit I	**2002-3221/1000-434**	50
Circuit II	**2002-3221/1000-413**	50



Circuit I Circuit II

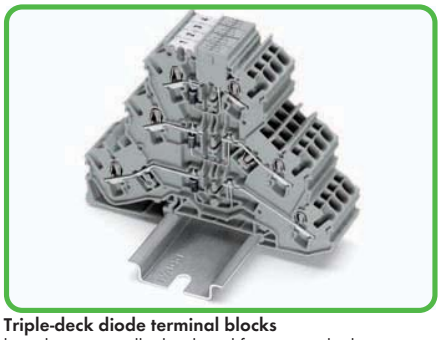


Item No.		Pack. Unit
Triple-deck diode terminal block with 1N4007 diode, gray		
Circuit I	**2002-3211/1000-675**	50
Circuit II	**2002-3211/1000-676**	50

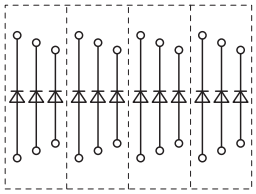
Through terminal blocks with same profile,	
see page 78	

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

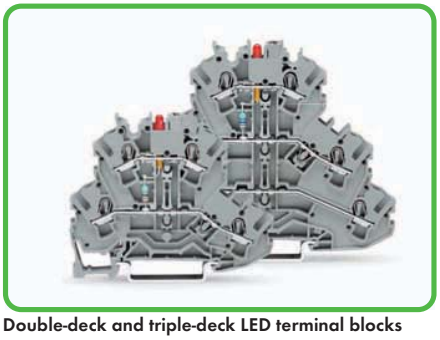
Circuit Configuration Example
Triple-Deck Diode Terminal Blocks



Triple-deck 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. The terminal blocks provide high-density wiring, while maintaining a width of only 5.2 mm/0.205 in.
Push-in type jumper bars provide additional options for custom circuit design.



Open diode gates can be created, which can be connected individually using the following terminal blocks:
2002-3212/1000-763 or
2002-3212/1000-674
Using push-in type jumper bars, individual levels can be turned into polarized diode gates.



Double-deck and triple-deck LED terminal blocks

❶ Conductor sizes: 0.25 mm² – 4 mm² "s + f-st"; Push-in conductor sizes: 0.75 mm² – 4 mm² "s" and 0.75 mm² – 2.5 mm² "insulated ferrules, 12 mm"

❷ Strip length, see packaging or instructions.

2002 Series Accessories

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

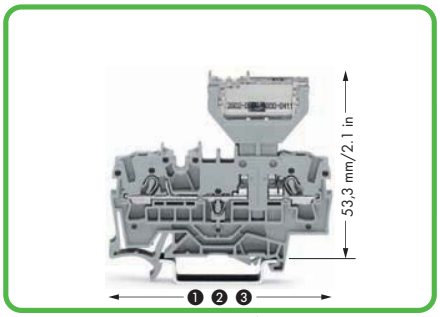
End and intermediate plate, 0.8 mm thick				
	orange	**2002-3292**	100 (4x25)	
	gray	**2002-3291**	100 (4x25)	
Triple-deck marker carrier,				
	pivoting			
	gray	**2002-131**	50 (2x25)	
Insulation stop,				
	5 pcs/strip,			
	0.25 - 0.5 mm²			
	light gray	**2002-171**	200 (8x25)	
Insulation stop,				
	5 pcs/strip,			
	0.75 - 1 mm²			
	dark gray	**2002-172**	200 (8x25)	
Push-in type jumper bar, insulated,				
	I_N 25 A,			
	light gray			
	2-way	**2002-402**	200 (8x25)	
	3-way	**2002-403**	200 (8x25)	
	4-way	**2002-404**	200 (8x25)	
	5-way	**2002-405**	100 (4x25)	
	6-way	**2002-406**	100 (4x25)	
	7-way	**2002-407**	100 (4x25)	
	8-way	**2002-408**	100 (4x25)	
	9-way	**2002-409**	100 (4x25)	
	10-way	**2002-410**	100 (4x25)	
Push-in type jumper bar, insulated,				
	I_N 25 A,			
	light gray			
	from 1 to 3	**2002-433**	200 (8x25)	
	from 1 to 4	**2002-434**	200 (8x25)	
	from 1 to 5	**2002-435**	100 (4x25)	
	from 1 to 6	**2002-436**	100 (4x25)	
	from 1 to 7	**2002-437**	100 (4x25)	
	from 1 to 8	**2002-438**	100 (4x25)	
	from 1 to 9	**2002-439**	100 (4x25)	
	from 1 to 10	**2002-440**	100 (4x25)	
Modular TOPJOB®S connector,				
	can be snapped together,			
	for jumper contact slot			
	gray	**2002-511**	100 (4x25)	
Spacer module, can be snapped together,				
	e.g., for bridging commoned terminal blocks			
	gray	**2002-549**	100 (4x25)	

End plate,			
	for modular TOPJOB®S connectors,		
	1.5 mm thick		
	gray	**2002-541**	100 (4x25)
Test plug,			
	with 500 mm cable,		
	2 mm Ø		
	red	**210-136**	50
Test plug adapter,			
	for test plug 4 mm Ø		
	gray	**2009-174**	100 (4x25)
Testing tap,			
	for max. 2.5 mm²		
	gray	**2009-182**	100 (4x25)
Banana plug,			
	for socket 4 mm Ø,		
	color mixed		
		215-111	50
WMB Multi marking system,			
	10 strips with 10 markers per card,		
	stretchable 5 - 5.2 mm		
	plain	**793-5501**	5
WMB Inline, plain,			
	stretchable 5 - 5.2 mm,		
	1,500 WMB markers, 5 mm, on roll		
	white	**2009-115**	1
Marking strip, plain,			
	11 mm wide,		
	50 m roll		
	white	**2009-110**	1
TOPJOB®S group marker carrier,			
	snap-on type for jumper slot,		
	5 mm wide		
	gray	**2009-191**	50 (2x25)
Screwless end stop,			
	for DIN 35 rail,		
	6 mm wide		
	gray	**249-116**	100 (4x25)
Screwless end stop,			
	for DIN 35 rail,		
	10 mm wide		
	gray	**249-117**	50 (2x25)

TOPJOB®S
Pluggable Diode Modules on Carrier Terminal Blocks 2.5 (4) mm²
2002 Series

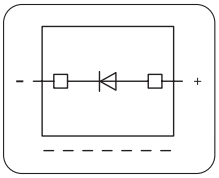
CAGE CLAMP®S

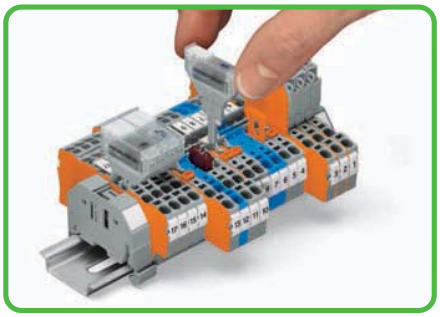
Diode module
with 1N4007 diode
U_N 250 V, U_{RM} 1000 V
I_N 1 A
Plug width 5.2 mm / 0.205 in



These diode have been designed for use in lamp test circuits or collective fault indicating systems, and offer the following advantages:
- Separation into functional and wiring level
- Polarized direction of switching
- Quick and easy exchange of modules
- High density with only 5.2 mm/0.205 in width of terminal block and module

1. Length of 2002-1661: 66.5 mm / 2.62 in 2-conductor carrier terminal block
2. Length of 2002-1861: 87.5 mm / 3.45 in 4-conductor carrier terminal block
3. Length of 2002-1961: 72.9 mm / 2.87 in 2-conductor carrier terminal block with additional jumper position
4. See application notes for:
Colored push-in type jumper bars, page 139
Staggered jumper, page 141
Push-in type wire jumper, page 140



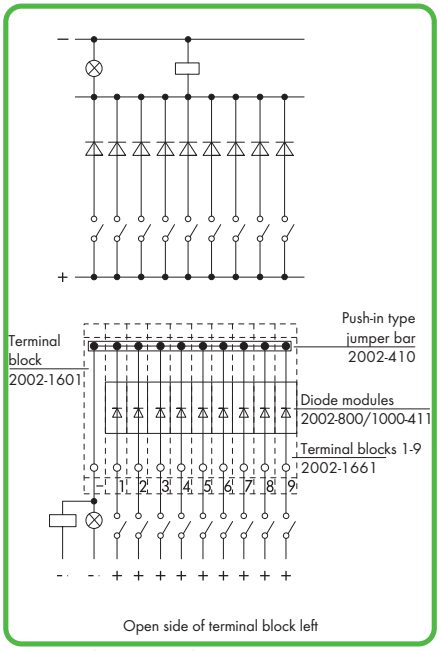


	Item No.	Pack. Unit
Diode module,		
with 1N4007 diode, max. operating temperature: 85 °C, 5.2 mm wide		
gray	**2002-800/1000-411**	100

Carrier Term. Blocks and Accessories

Appropriate marking system:
WMB/Marking strips

2-conductor carrier terminal block,			
1	0.25 - 2.5 (4) mm² / AWG 22 - 12		
	Terminal block width 5.2 mm / 0.205 in		
	gray	**2002-1661**	50
End and intermediate plate, 1 mm thick			
	orange	**2002-1692**	100 (4x25)
	gray	**2002-1691**	100 (4x25)
4-conductor carrier terminal block,			
2	0.25 - 2.5 (4) mm² / AWG 22 - 12		
	Terminal block width 5.2 mm / 0.205 in		
	gray	**2002-1861**	50
End and intermediate plate, 1 mm thick			
	orange	**2002-1892**	100 (4x25)
	gray	**2002-1891**	100 (4x25)
2-conductor carrier terminal block,			
3	0.25 - 2.5 (4) mm² / AWG 22 - 12		
	Terminal block width 5.2 mm / 0.205 in		
	gray	**2002-1961**	50
End and intermediate plate, 1 mm thick			
	orange	**2002-1992**	100 (4x25)
	gray	**2002-1991**	100 (4x25)
Insulation stop,			
	5 pcs/strip,		
	0.25 - 0.5 mm²		
	light gray	**2002-171**	200 (8x25)
Insulation stop,			
	5 pcs/strip,		
	0.75 - 1 mm²		
	dark gray	**2002-172**	200 (8x25)



Diode gate for collective fault indication

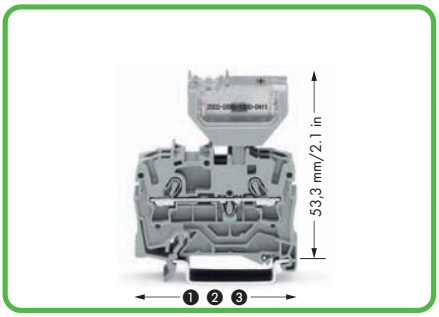
Accessories

Push-in type wire jumper,			
4	insulated,		
	I_N 16 A,		
	wire size 1.5 mm²		
	L = 60 mm	**2009-412**	100 (10x10)
	L = 110 mm	**2009-414**	100 (10x10)
	L = 250 mm	**2009-416**	100 (10x10)
Push-in type jumper bar, insulated,			
4	I_N 25 A,		
	light gray		
	2-way	**2002-402**	200 (8x25)
	3-way	**2002-403**	200 (8x25)
	4-way	**2002-404**	200 (8x25)
	5-way	**2002-405**	100 (4x25)
	6-way	**2002-406**	100 (4x25)
	7-way	**2002-407**	100 (4x25)
	8-way	**2002-408**	100 (4x25)
	9-way	**2002-409**	100 (4x25)
	10-way	**2002-410**	100 (4x25)
Push-in type jumper bar, insulated,			
	I_N 25 A,		
	light gray		
	from 1 to 3	**2002-433**	200 (8x25)
	from 1 to 4	**2002-434**	200 (8x25)
	from 1 to 5	**2002-435**	100 (4x25)
	from 1 to 6	**2002-436**	100 (4x25)
	from 1 to 7	**2002-437**	100 (4x25)
	from 1 to 8	**2002-438**	100 (4x25)
	from 1 to 9	**2002-439**	100 (4x25)
	from 1 to 10	**2002-440**	100 (4x25)
Staggered jumper,			
4	insulated,		
	I_N 25 A,		
	light gray		
	2-way	**2002-472**	100 (4x25)
	3-way	**2002-473**	100 (4x25)
	4-way	**2002-474**	100 (4x25)
	5-way	**2002-475**	50 (2x25)
	6-way	**2002-476**	50 (2x25)
	7-way	**2002-477**	50 (2x25)
	8-way	**2002-478**	50 (2x25)
	9-way	**2002-479**	50 (2x25)
	10-way	**2002-480**	50 (2x25)
	11-way	**2002-481**	50 (2x25)
	12-way	**2002-482**	50 (2x25)

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

TOPJOB®S
Pluggable Diode Modules and Empty Component Plug Housings on Through Terminal Blocks 2.5 (4) mm², 2002 Series

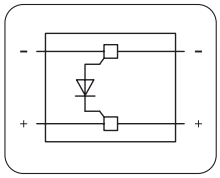
Diode module
with 1N4007 diode as free-wheeling diode
U_N 250 V, U_{RM} 1000 V
I_N 1 A
Plug width 10.4 mm / 0.409 in

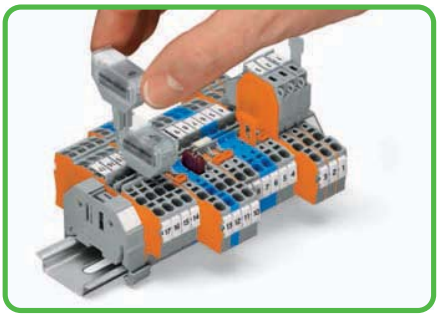


Similar to a push-in jumper, these diode modules are simply pushed into the contact slots of the current bars for two adjacent through terminal blocks.

This offers the following advantages:
- These modules are suitable for **all 2001 to 2006** Series through terminal blocks equipped with jumper slots (please note the module's width).
- Easily retrofit terminal blocks with diode modules.

1. Length of 2002-1201: 48.5 mm / 1.91 in 2-conductor carrier terminal block
2. Length of 2002-1301: 59.5 mm / 2.34 in 3-conductor carrier terminal block
3. Length of 2002-1401: 70 mm / 2.76 in 4-conductor carrier terminal block
4. See application notes for:
Colored push-in type jumper bars, page 139
Staggered jumper, page 141
Push-in type wire jumper, page 140





Plugging a diode module into a through terminal block.

Additional advantages:
- Separation into functional and wiring level
- Modules can be replaced quickly by other types of modules
- Solder-free assembly of diodes, resistors, etc.

Opening the cover via operating tool (blade width 2.5 mm).

	Item No.	Pack. Unit
Diode module,		
with 1N4007 diode as free-wheeling diode, max. operating temperature: 85 °C, 10.4 mm wide		
gray	**2002-880/1000-411**	50
Empty component plug housing type 4,		
2-pole, 10.4 mm wide		
gray	**2002-880**	50

Through Term. Blocks and Accessories

Appropriate marking system:
WMB/Marking strips

2-conductor through terminal block,			
1	0.25 - 2.5 (4) mm² / AWG 22 - 12		
	Terminal block width 5.2 mm / 0.205 in		
	gray	**2002-1201**	100
End and intermediate plate, 0.8 mm thick			
	orange	**2002-1292**	100 (4x25)
	gray	**2002-1291**	100 (4x25)
3-conductor through terminal block,			
2	0.25 - 2.5 (4) mm² / AWG 22 - 12		
	Terminal block width 5.2 mm / 0.205 in		
	gray	**2002-1301**	100
End and intermediate plate, 0.8 mm thick			
	orange	**2002-1392**	100 (4x25)
	gray	**2002-1391**	100 (4x25)
4-conductor through terminal block,			
3	0.25 - 2.5 (4) mm² / AWG 22 - 12		
	Terminal block width 5.2 mm / 0.205 in		
	gray	**2002-1401**	100
End and intermediate plate, 0.8 mm thick			
	orange	**2002-1492**	100 (4x25)
	gray	**2002-1491**	100 (4x25)
Insulation stop,			
	5 pcs/strip, 0.25 - 0.5 mm²		
	light gray	**2002-171**	200 (8x25)

Accessories

Insulation stop,			
	5 pcs/strip, 0.75 - 1 mm²		
	dark gray	**2002-172**	200 (8x25)
Protective warning marker,			
	with high-voltage symbol, black, for 5 terminal blocks		
	yellow	**2002-115**	100 (4x25)
Push-in type wire jumper,			
4	insulated, I_N 16 A, wire size 1.5 mm²		
	L = 60 mm	**2009-412**	100 (10x10)
	L = 110 mm	**2009-414**	100 (10x10)
	L = 250 mm	**2009-416**	100 (10x10)
Push-in type jumper bar, insulated,			
4	I_N 25 A, light gray		
	2-way	**2002-402**	200 (8x25)
	3-way	**2002-403**	200 (8x25)
	4-way	**2002-404**	200 (8x25)
	5-way	**2002-405**	100 (4x25)
	6-way	**2002-406**	100 (4x25)
	7-way	**2002-407**	100 (4x25)
	8-way	**2002-408**	100 (4x25)
	9-way	**2002-409**	100 (4x25)
	10-way	**2002-410**	100 (4x25)
Push-in type jumper bar, insulated,			
	I_N 25 A, light gray		
	from 1 to 3	**2002-433**	200 (8x25)
	from 1 to 4	**2002-434**	200 (8x25)
	from 1 to 5	**2002-435**	100 (4x25)
	from 1 to 6	**2002-436**	100 (4x25)
	from 1 to 7	**2002-437**	100 (4x25)
	from 1 to 8	**2002-438**	100 (4x25)
	from 1 to 9	**2002-439**	100 (4x25)
	from 1 to 10	**2002-440**	100 (4x25)
Staggered jumper,			
4	insulated, I_N 25 A, light gray		
	2-way	**2002-472**	100 (4x25)
	3-way	**2002-473**	100 (4x25)
	4-way	**2002-474**	100 (4x25)
	5-way	**2002-475**	50 (2x25)

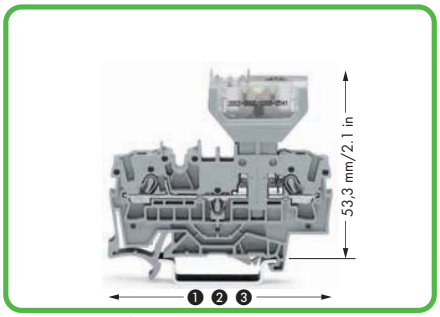
For list of approvals and user guide, see pages 634 to 637.

TOPJOB®S
Pluggable LED Modules on Carrier Terminal Blocks 2.5 (4) mm²
2002 Series

CAGE CLAMP®S

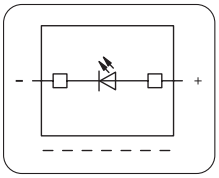
LED module
$I_N \leq 3$ mA

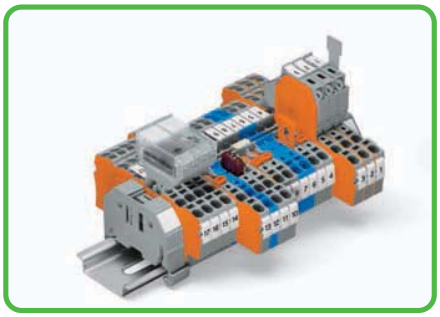
Plug width 5.2 mm / 0.205 in



The monitoring of control and operating current circuits with LED modules on rail-mounted terminal blocks provides several advantages to the user:
- No additional cost for assembly and wiring
- Separation into functional and wiring level
- Modules can be replaced quickly and easily by other types of modules

1. Length of 2002-1661: 66.5 mm / 2.62 in 2-conductor carrier terminal block
2. Length of 2002-1861: 87.5 mm / 3.45 in 4-conductor carrier terminal block
3. Length of 2002-1961: 72.9 mm / 2.87 in 2-conductor carrier terminal block with additional jumper position
4. See application notes for: Colored push-in type jumper bars, page 139 Staggered jumper, page 141 Push-in type wire jumper, page 140





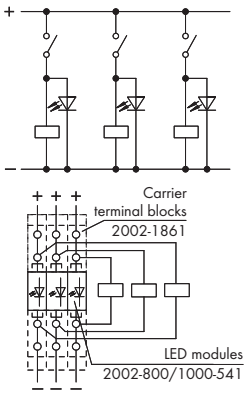
Additional advantages:
- Polarized direction of switching
- High density with only 5.2 mm/0.205 in width of terminal block and module

	Item No.	Pack. Unit
LED module,		
with red LED, max. operating temperature: 85 °C,		
5.2 mm wide		
◯ 12 - 30 V	**2002-800/1000-541**	100
◯ 30 - 65 V	**2002-800/1000-542**	100
◯ 230 V	**2002-800/1000-836**	100

Carrier Term. Blocks and Accessories

Appropriate marking system:
WMB/Marking strips

2-conductor carrier terminal block,			
❶	0.25 - 2.5 (4) mm² / AWG 22 - 12		
	Terminal block width 5.2 mm / 0.205 in		
	gray	**2002-1661**	50
End and intermediate plate, 1 mm thick			
	orange	**2002-1692**	100 (4x25)
	gray	**2002-1691**	100 (4x25)
4-conductor carrier terminal block,			
❷	0.25 - 2.5 (4) mm² / AWG 22 - 12		
	Terminal block width 5.2 mm / 0.205 in		
	gray	**2002-1861**	50
End and intermediate plate, 1 mm thick			
	orange	**2002-1892**	100 (4x25)
	gray	**2002-1891**	100 (4x25)
2-conductor carrier terminal block,			
❸	0.25 - 2.5 (4) mm² / AWG 22 - 12		
	Terminal block width 5.2 mm / 0.205 in		
	gray	**2002-1961**	50
End and intermediate plate, 1 mm thick			
	orange	**2002-1992**	100 (4x25)
	gray	**2002-1991**	100 (4x25)
Insulation stop,			
	5 pcs/strip,		
	0.25 - 0.5 mm²		
	light gray	**2002-171**	200 (8x25)
Insulation stop,			
	5 pcs/strip,		
	0.75 - 1 mm²		
	dark gray	**2002-172**	200 (8x25)



Open side of terminal block right

Voltage control refers to current circuits

Accessories

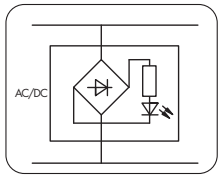
Push-in type wire jumper,			
❹	insulated,		
	I_N 16 A,		
	wire size 1.5 mm²		
	L = 60 mm	**2009-412**	100 (10x10)
	L = 110 mm	**2009-414**	100 (10x10)
	L = 250 mm	**2009-416**	100 (10x10)
Push-in type jumper bar, insulated,			
❹	I_N 25 A,		
	light gray		
	2-way	**2002-402**	200 (8x25)
	3-way	**2002-403**	200 (8x25)
	4-way	**2002-404**	200 (8x25)
	5-way	**2002-405**	100 (4x25)
	6-way	**2002-406**	100 (4x25)
	7-way	**2002-407**	100 (4x25)
	8-way	**2002-408**	100 (4x25)
	9-way	**2002-409**	100 (4x25)
	10-way	**2002-410**	100 (4x25)
Push-in type jumper bar, insulated,			
	I_N 25 A,		
	light gray		
	from 1 to 3	**2002-433**	200 (8x25)
	from 1 to 4	**2002-434**	200 (8x25)
	from 1 to 5	**2002-435**	100 (4x25)
	from 1 to 6	**2002-436**	100 (4x25)
	from 1 to 7	**2002-437**	100 (4x25)
	from 1 to 8	**2002-438**	100 (4x25)
	from 1 to 9	**2002-439**	100 (4x25)
	from 1 to 10	**2002-440**	100 (4x25)
Staggered jumper,			
❹	insulated,		
	I_N 25 A,		
	light gray		
	2-way	**2002-472**	100 (4x25)
	3-way	**2002-473**	100 (4x25)
	4-way	**2002-474**	100 (4x25)
	5-way	**2002-475**	50 (2x25)
	6-way	**2002-476**	50 (2x25)
	7-way	**2002-477**	50 (2x25)
	8-way	**2002-478**	50 (2x25)
	9-way	**2002-479**	50 (2x25)
	10-way	**2002-480**	50 (2x25)
	11-way	**2002-481**	50 (2x25)
	12-way	**2002-482**	50 (2x25)

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

TOPJOB®S
Pluggable LED Modules on Through Terminal Blocks 2.5 (4) mm²
2002 Series

LED module
$I_N \leq 3$ mA

Plug width 10.4 mm / 0.409 in



Similar to a push-in jumper, these LED modules are inserted into the current bar contact slots of two adjacent through terminal blocks.
These modules are suitable for **all 2001 to 2006** Series through terminal blocks equipped with jumper slots (please note the module's width).
- Easily retrofit terminal blocks with diode modules.

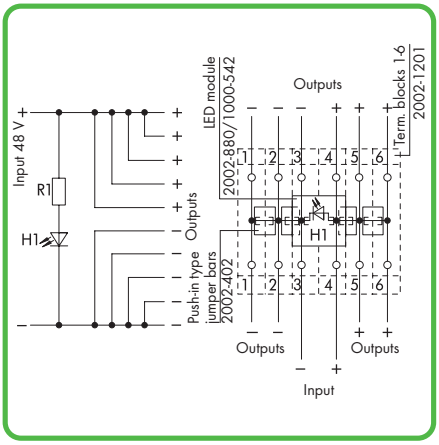
1. Length of 2002-1201: 48.5 mm / 1.91 in 2-conductor carrier terminal block
2. Length of 2002-1301: 59.5 mm / 2.34 in 3-conductor carrier terminal block
3. Length of 2002-1401: 70 mm / 2.76 in 4-conductor carrier terminal block

Marking using WMB Multi markers and marker strips.

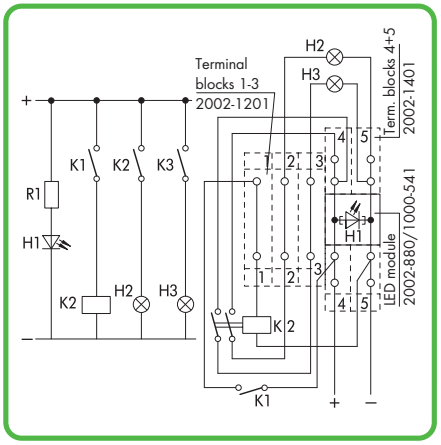
Additional advantages:
- Separation into functional and wiring level
- Modules can be replaced quickly by other types of modules

Testing
can also be performed using 2-pole test plugs.

	Item No.		Pack. Unit
LED module,			
with red LED, max. operating temperature: 85 °C,			
10.4 mm wide			
12 - 30 V	**2002-880/1000-541**		50
30 - 65 V	**2002-880/1000-542**		50
230 V	**2002-880/1000-836**		50
Through Term. Blocks and Accessories			
Appropriate marking system: WMB/Marking strips			
2-conductor through terminal block,			
1	0.25 - 2.5 (4) mm² / AWG 22 - 12		
	Terminal block width 5.2 mm / 0.205 in		
	gray	**2002-1201**	100
End and intermediate plate, 0.8 mm thick			
	orange	**2002-1292**	100 (4x25)
	gray	**2002-1291**	100 (4x25)
3-conductor through terminal block,			
2	0.25 - 2.5 (4) mm² / AWG 22 - 12		
	Terminal block width 5.2 mm / 0.205 in		
	gray	**2002-1301**	100
End and intermediate plate, 0.8 mm thick			
	orange	**2002-1392**	100 (4x25)
	gray	**2002-1391**	100 (4x25)
4-conductor through terminal block,			
3	0.25 - 2.5 (4) mm² / AWG 22 - 12		
	Terminal block width 5.2 mm / 0.205 in		
	gray	**2002-1401**	100
End and intermediate plate, 0.8 mm thick			
	orange	**2002-1492**	100 (4x25)
	gray	**2002-1491**	100 (4x25)
Insulation stop,			
	5 pcs/strip,		
	0.25 - 0.5 mm²		
	light gray	**2002-171**	200 (8x25)
Insulation stop,			
	5 pcs/strip,		
	0.75 - 1 mm²		
	dark gray	**2002-172**	200 (8x25)



Multiple outputs with indicator lamp



Control unit

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

TOPJOB®S
Empty Component Plug Housings on Carrier Terminal Blocks 2.5 (4) mm²
2002 Series

CAGE CLAMP®S

Empty component plug housing	Empty component plug housing
Plug width 5.2 mm / 0.205 in	**Plug width 10.4 mm / 0.409 in**

❶ Length of 2002-1661: 66.5 mm / 2.62 in
2-conductor carrier terminal block

❷ Length of 2002-1861: 87.5 mm / 3.45 in
4-conductor carrier terminal block

❸ Length of 2002-1961: 72.9 mm / 2.87 in
2-conductor carrier terminal block with additional jumper position

❹ See application notes for:
Colored push-in type jumper bars, page 139
Staggered jumper, page 141
Push-in type wire jumper, page 140

	Item No.	Pack. Unit
Empty component plug housing type 1,		
2-pole,		
5.2 mm wide		
gray	**2002-800**	100

	Item No.	Pack. Unit
Empty component plug housing type 2,		
2-pole,		
10.4 mm wide		
gray	**2002-810**	50
Empty component plug housing type 3,		
4-pole,		
10.4 mm wide		
gray	**2002-820**	50

Carrier Term. Blocks and Accessories

Appropriate marking system:
WMB/Marking strips

2-conductor carrier terminal block,			
❶ 0.25 - 2.5 (4) mm² / AWG 22 - 12			
Terminal block width 5.2 mm / 0.205 in			
gray	**2002-1661**		50
End and intermediate plate, 1 mm thick			
orange	**2002-1692**	100	(4x25)
gray	**2002-1691**	100	(4x25)
4-conductor carrier terminal block,			
❷ 0.25 - 2.5 (4) mm² / AWG 22 - 12			
Terminal block width 5.2 mm / 0.205 in			
gray	**2002-1861**		50
End and intermediate plate, 1 mm thick			
orange	**2002-1892**	100	(4x25)
gray	**2002-1891**	100	(4x25)
2-conductor carrier terminal block,			
❸ 0.25 - 2.5 (4) mm² / AWG 22 - 12			
Terminal block width 5.2 mm / 0.205 in			
gray	**2002-1961**		50
End and intermediate plate, 1 mm thick			
orange	**2002-1992**	100	(4x25)
gray	**2002-1991**	100	(4x25)
Insulation stop,			
5 pcs/strip,			
0.25 - 0.5 mm²			
light gray	**2002-171**	200	(8x25)
Insulation stop,			
5 pcs/strip,			
0.75 - 1 mm²			
dark gray	**2002-172**	200	(8x25)
Protective warning marker,			
with high-voltage symbol, black,			
for 5 terminal blocks			
yellow	**2002-115**	100	(4x25)

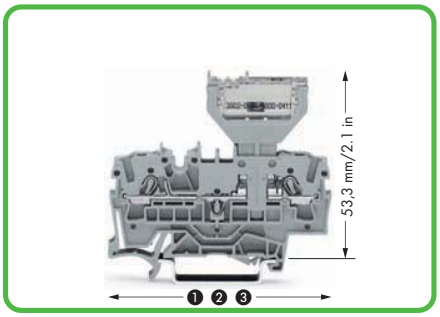
Push-in type wire jumper,			
❹ insulated,			
I_N 16 A,			
wire size 1.5 mm²			
L = 60 mm	**2009-412**	100	(10x10)
L = 110 mm	**2009-414**	100	(10x10)
L = 250 mm	**2009-416**	100	(10x10)
Push-in type jumper bar, insulated,			
❹ I_N 25 A,			
light gray			
2-way	**2002-402**	200	(8x25)
3-way	**2002-403**	200	(8x25)
4-way	**2002-404**	200	(8x25)
5-way	**2002-405**	100	(4x25)
6-way	**2002-406**	100	(4x25)
7-way	**2002-407**	100	(4x25)
8-way	**2002-408**	100	(4x25)
9-way	**2002-409**	100	(4x25)
10-way	**2002-410**	100	(4x25)
Push-in type jumper bar, insulated,			
I_N 25 A,			
light gray			
from 1 to 3	**2002-433**	200	(8x25)
from 1 to 4	**2002-434**	200	(8x25)
from 1 to 5	**2002-435**	100	(4x25)
from 1 to 6	**2002-436**	100	(4x25)
from 1 to 7	**2002-437**	100	(4x25)
from 1 to 8	**2002-438**	100	(4x25)
from 1 to 9	**2002-439**	100	(4x25)
from 1 to 10	**2002-440**	100	(4x25)
Multi-purpose operating tool,			
for component plugs			
	2002-116		5

Accessories

Staggered jumper,			
❹ insulated,			
I_N 25 A,			
light gray			
2-way	**2002-472**	100	(4x25)
3-way	**2002-473**	100	(4x25)
4-way	**2002-474**	100	(4x25)
5-way	**2002-475**	50	(2x25)
6-way	**2002-476**	50	(2x25)
7-way	**2002-477**	50	(2x25)
8-way	**2002-478**	50	(2x25)
9-way	**2002-479**	50	(2x25)
10-way	**2002-480**	50	(2x25)
11-way	**2002-481**	50	(2x25)
12-way	**2002-482**	50	(2x25)
WMB Multi marking system,			
10 strips with 10 markers per card,			
stretchable 5 - 5.2 mm			
plain	**793-5501**		5
WMB Multi marking system, plain,			
10 strips with 10 markers per card,			
stretchable 5 - 5.2 mm			
yellow	**793-5501/000-002**		
red	**793-5501/000-005**		
blue	**793-5501/000-006**		
gray	**793-5501/000-007**		
orange	**793-5501/000-012**		
light green	**793-5501/000-017**		
green	**793-5501/000-023**		
violet	**793-5501/000-024**		
			5

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

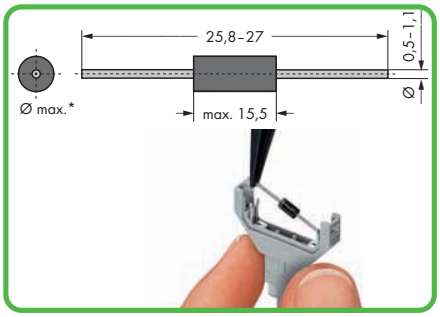
Technical Information



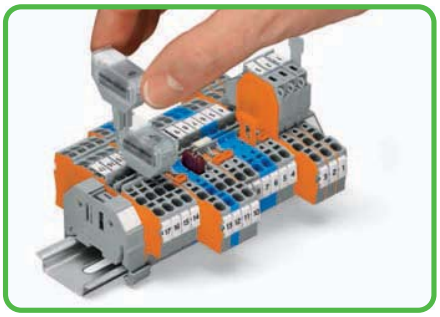
Application example showing a pluggable diode module.

Opening the cover via multi-purpose operating tool for component plugs.

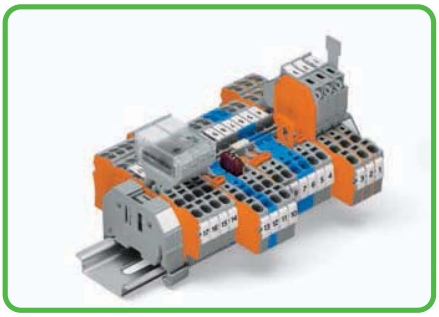
When closing the cover, please insert cover as shown in the illustration.



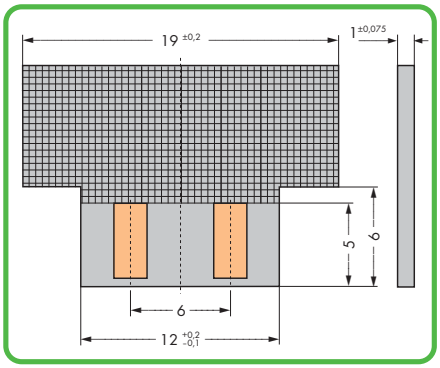
* Ø max. 3.4 mm at 5.2 mm module width and
* Ø max. 5.4 mm at 10.4 mm/0.409 in module width
Notice: Reconnection only possible with similar or larger wire diameter. Smaller wire diameters must be soldered.
Component plugs for building custom circuits.
Solder-free assembly of diodes, resistors, etc.
Picture shows 1N4007 diode.



Plugging a diode module into a through terminal block.

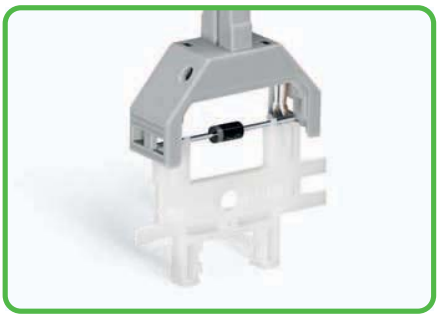


Diode module inserted in a through terminal block.



Dimensions of self-assembled PCBs
Module height 2 mm at 5.2 mm module width and module height 3.3 mm at 10.4 mm module width

Cutting component to the proper length.



Pressing component into plug contact via operating tool.

Pushing PCB into plug contact via operating tool.