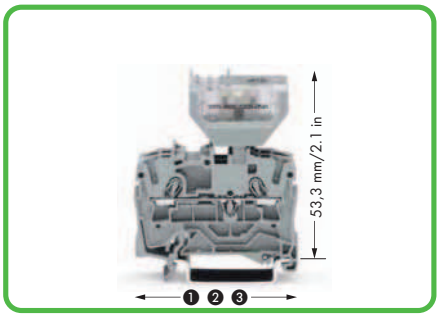
Pluggable LED Modules on Through Terminal Blocks 2.5 (4) mm²
2002 Series

LED module
$I_N \leq 3$ mA

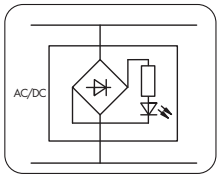
Plug width 10.4 mm / 0.409 in





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.

❶ Length of 2002-1201: 48.5 mm / 1.91 in 2-conductor carrier terminal block
❷ Length of 2002-1301: 59.5 mm / 2.34 in 3-conductor carrier terminal block
❸ 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.

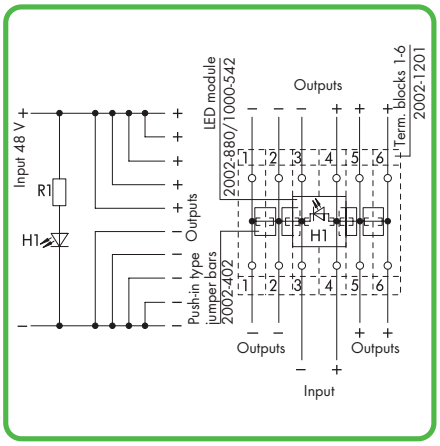
	Item No.		Pack. Unit
LED module,			
with red LED, max. operating temperature: 85 °C,			
10.4 mm wide			
12 - 30 V	**2002-880/1000-541**		50
30 - 65 V	**2002-880/1000-542**		50
230 V	**2002-880/1000-836**		50

Through Term. Blocks and Accessories

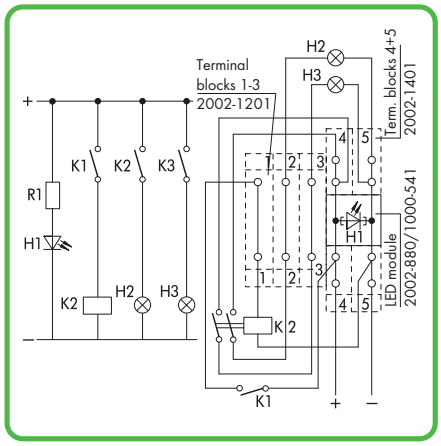
Appropriate marking system:
WMB/Marking strips

2-conductor through terminal block,			
❶	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,			
❷	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,			
❸	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)

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



Multiple outputs with indicator lamp



Control unit

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

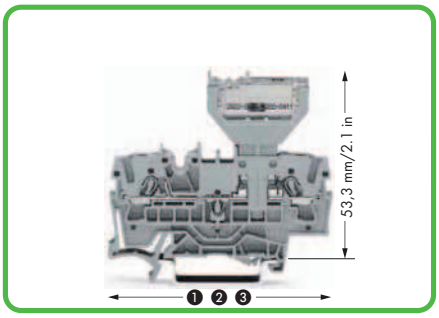
2-conductor carrier terminal block, ❶			
0.25 - 2.5 (4) mm² / AWG 22 - 12			
Terminal block width 5.2 mm / 0.205 in			
gray	**2002-1661**		50
End and intermediate plate, 1 mm thick			
orange	**2002-1692**		100 (4x25)
gray	**2002-1691**		100 (4x25)
4-conductor carrier terminal block, ❷			
0.25 - 2.5 (4) 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.



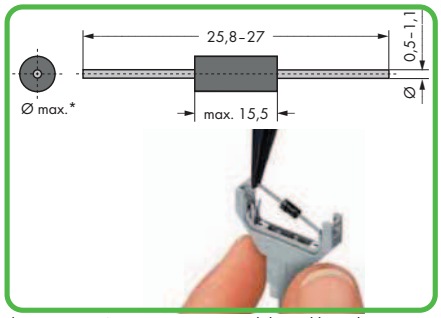
Application example showing a pluggable diode module.



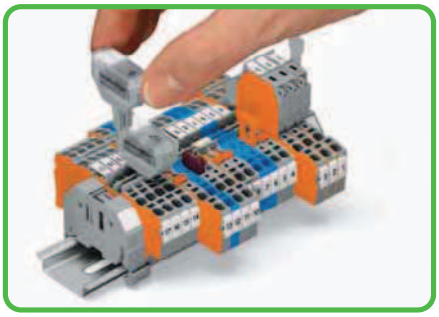
Opening the cover via multi-purpose operating tool for component plugs.



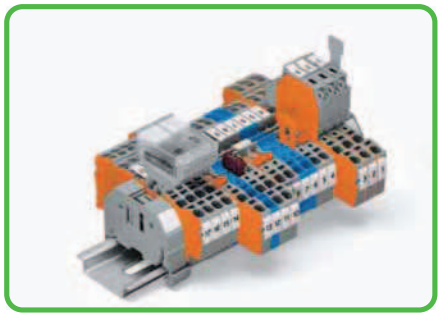
When closing the cover, please insert cover as shown in the illustration.



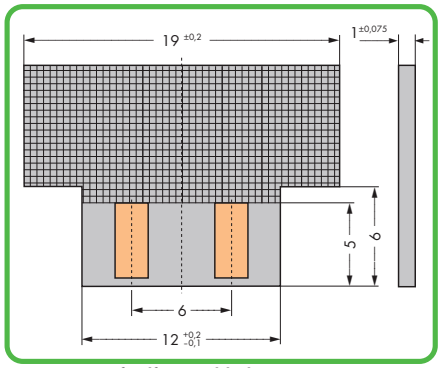
* Ø max. 3.4 mm at 5.2 mm module width and
* Ø max. 5.4 mm at 10.4 mm/0.409 in module width
Notice: Reconnection only possible with similar or larger wire diameter. Smaller wire diameters must be soldered.
Component plugs for building custom circuits.
Solder-free assembly of diodes, resistors, etc.
Picture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



Plugging a diode module into a through terminal block.



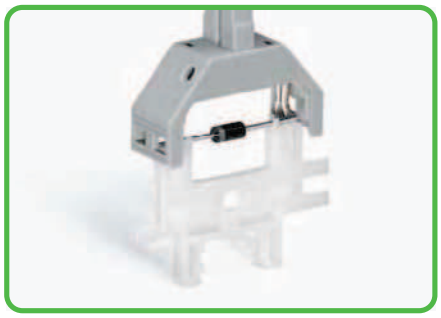
Diode module inserted in a through terminal block.



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.



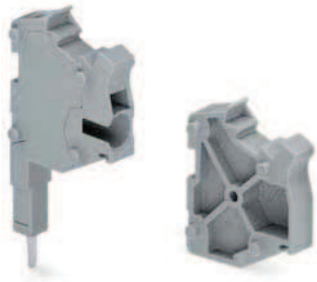
Pushing PCB into plug contact via operating tool.

TOPJOB®S
Connectors and Connector Strips
2001/2002 Series

0.25 - 1.5 (2.5) mm² ❶	AWG 22 - 14
500 V/6 kV/3 ❸	300 V, 15 A
I_N 18 A	
Terminal block width 4.2 mm / 0.165 in	
9 - 11 mm / 0.39 in ❹	

0.25 - 2.5 (4) mm² ❷	AWG 22 - 12
500 V/6 kV/3 ❸	300 V, 20 A
I_N 24 A	
Terminal block width 5.2 mm / 0.205 in	
10 - 12 mm / 0.43 in ❹	





	Item No.	Pack. Unit
Modular TOPJOB®S connector,		
for jumper contact slot,		
can be snapped together, gray		
1-pole	**2001-511**	100 (4x25)
Spacer module, can be snapped together,		
e.g., for bridging commoned terminal blocks		
gray	**2001-549**	100 (4x25)
TOPJOB®S connector strip,		
for jumper contact slot, gray		
2-pole	**2001-552**	25
3-pole	**2001-553**	25
4-pole	**2001-554**	25
5-pole	**2001-555**	10
6-pole	**2001-556**	10
7-pole	**2001-557**	10
8-pole	**2001-558**	10
9-pole	**2001-559**	10
10-pole	**2001-560**	10

Item-Specific Accessories

End plate,			
	for modular TOPJOB®S connectors,		
	1.5 mm thick		
	gray	**2002-541**	100 (4x25)
WMB Inline, plain,			
	stretchable 4 - 4.2 mm,		
	2,000 WMB markers, 4 mm, on roll		
	white	**2009-114**	1
WMB Multi marking system,			
	10 strips with 10 markers per card,		
	stretchable 4 - 4.2 mm		
	plain	**793-4501**	5
WMB Multi marking system, plain,			
	10 strips with 10 markers per card,		
	stretchable 4 - 4.2 mm		
	yellow	**793-4501/000-002**	
	red	**793-4501/000-005**	
	blue	**793-4501/000-006**	
	gray	**793-4501/000-007**	
	orange	**793-4501/000-012**	
	light green	**793-4501/000-017**	
	green	**793-4501/000-023**	
	violet	**793-4501/000-024**	
			5

	Item No.	Pack. Unit
Modular TOPJOB®S connector,		
for jumper contact slot,		
can be snapped together, gray		
1-pole	**2002-511**	100 (4x25)
Spacer module, can be snapped together,		
e.g., for bridging commoned terminal blocks		
gray	**2002-549**	100 (4x25)
TOPJOB®S connector strip,		
for jumper contact slot, gray		
2-pole	**2002-552**	25
3-pole	**2002-553**	25
4-pole	**2002-554**	25
5-pole	**2002-555**	10
6-pole	**2002-556**	10
7-pole	**2002-557**	10
8-pole	**2002-558**	10
9-pole	**2002-559**	10
10-pole	**2002-560**	10

Item-Specific Accessories

End plate,			
	for modular TOPJOB®S connectors,		
	1.5 mm thick		
	gray	**2002-541**	100 (4x25)
WMB Inline, plain,			
	stretchable 5 - 5.2 mm,		
	1,500 WMB markers, 5 mm, on roll		
	white	**2009-115**	1
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
Miniature WSB Quick marking system,			
	10 strips with 10 markers per card,		
	5 mm wide markers		
	plain	**248-501**	5

Accessories

Appropriate marking systems (see Section 13)

Test plug,			
	with 500 mm cable,		
	2.3 mm Ø		
	yellow	**210-137**	50
Test plug,			
	with 500 mm cable,		
	2 mm Ø		
	red	**210-136**	50
Strain relief plate, gray			
	35 mm width	**734-326**	100 (4x25)
	6 mm wide	**734-327**	100 (4x25)
	12.5 mm width	**734-328**	100 (4x25)
	25 mm wide	**734-329**	100 (4x25)
Marking strip, plain,			
	11 mm wide,		
	50 m roll		
	white	**2009-110**	1

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