

## Disconnect Terminal Blocks for Test and Measurement of Transformer Circuits, 282 Series

### Preparing the shorting path for the current transformer

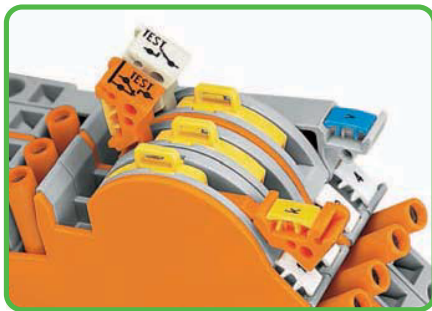


Insertion of insulated, touchproof adjacent jumpers into the protected shorting position.



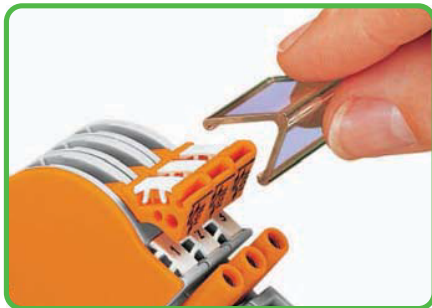
Terminal strip permanently prepared for current transformer circuits.

### Lock-out

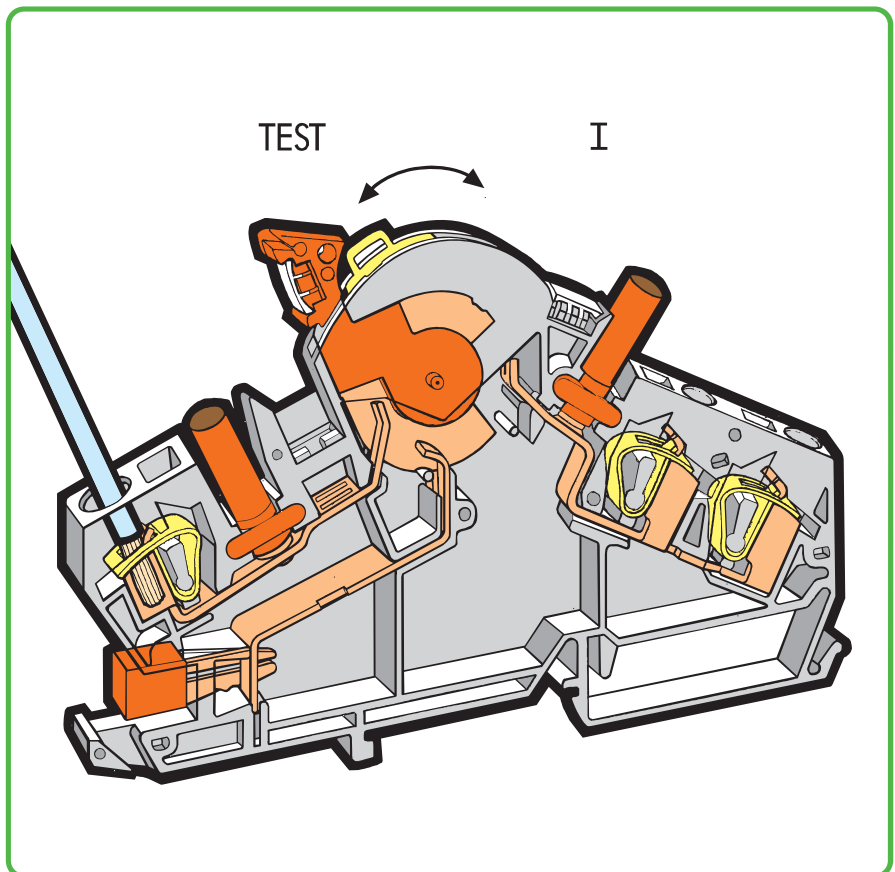


Lock-out has "snap" action into two notched positions preventing accidental operation of the disconnect link.

### Locking cover for disconnect links



Transparent locking cover for 1 - 4 disconnect links can be snapped on  
a) for mechanical interlocking for multipole switching  
b) for protecting markers.

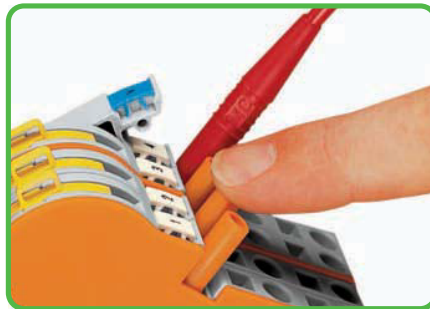


### Interlocking link



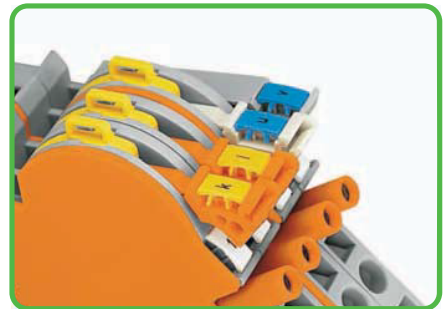
Interlocking link for mechanical interlocking of several links for multipole switching.

### Touch-proof test sockets



For touch-proof test sockets 4 mm Ø, for example mfd by Multi-Contact (not offered by WAGO).

### Marking



Marking with WMB Multi marking system. For other systems, see Section 13.

**CAGE CLAMP®**  
clamps the following  
copper conductors:\*

solid

stranded

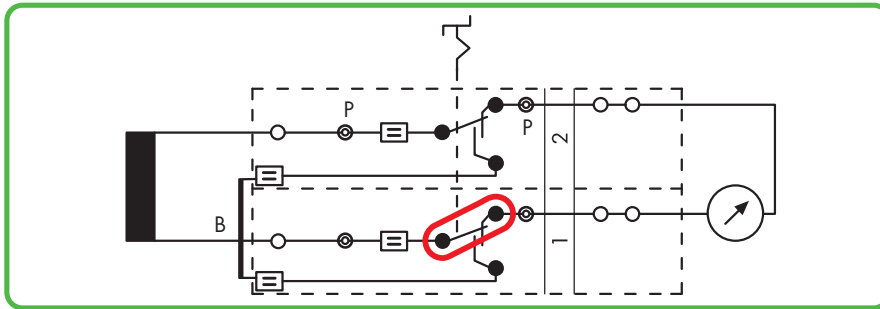
fine-stranded,  
also with tinned  
single strands

\* For aluminum conductors, see notes in Section 14.



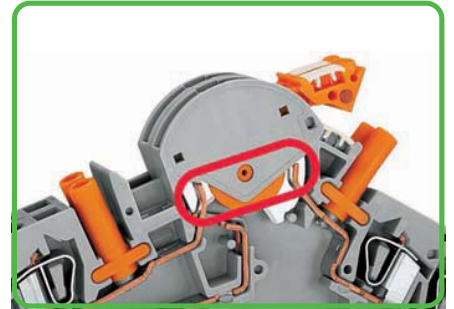
## – Description and Handling –

### Disconnect link in notched position "I"

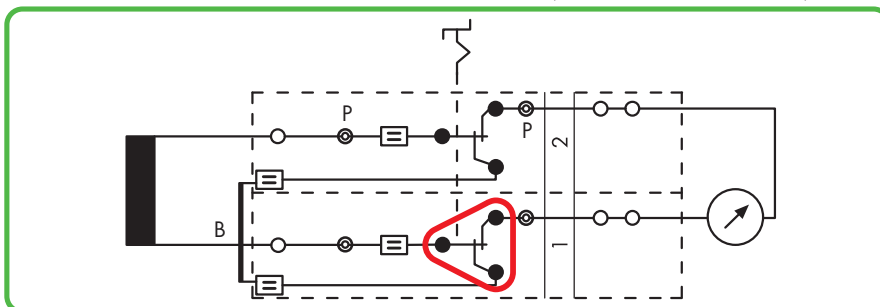


In position "I", the measuring instrument is connected to the transformer secondary.

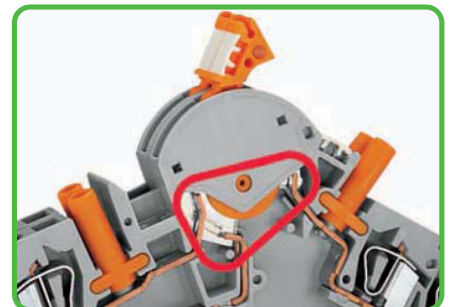
B = shorting jumper, P = test socket



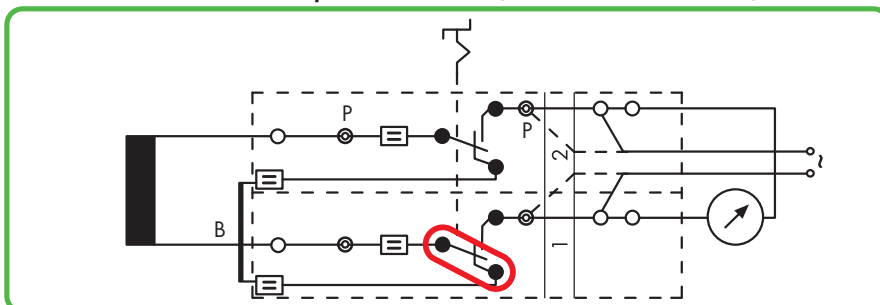
### Disconnect link in transition from "I" → "TEST" (terminal blocks 1 + 2)



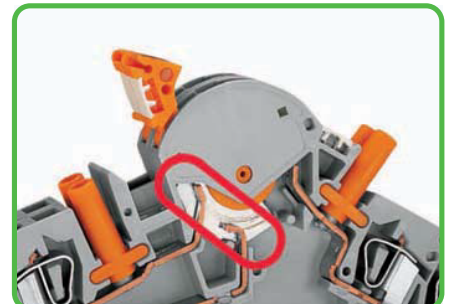
By moving the interlocked disconnect links from "I" to "TEST" the shorting path is activated without disconnection of the measuring instrument yet.



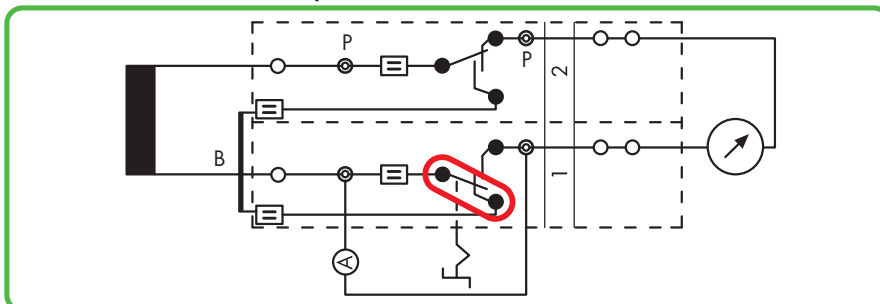
### Disconnect link in notched position "TEST" (terminal blocks 1 + 2)



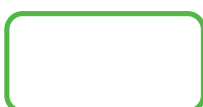
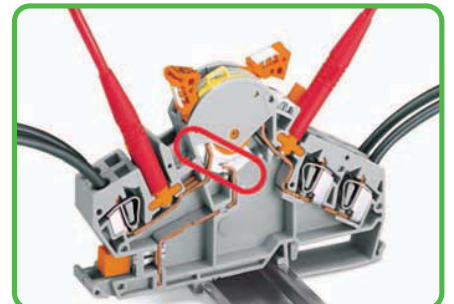
The measuring instrument is electrically disconnected from the transformer. In this position, if necessary, external voltage can be applied via sockets, or the 2nd CAGE CLAMP® connection for relay testing in transformer protection circuits.



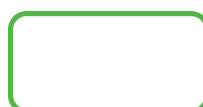
### Disconnect link in notched position "I" (terminal block 2) Disconnect link in notched position "TEST" (terminal block 1)



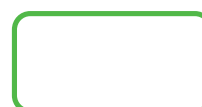
Measurement testing. Before moving the disconnect link of terminal block 1 into the notched position "TEST", the reference current meter must be inserted into the test socket of terminal block 1.



fine-stranded,  
tip-bonded



fine-stranded,  
with ferrule ❶  
(gaslight crimped)



fine-stranded,  
with pin terminal  
(gaslight crimped)

❶ When using ferrules, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.



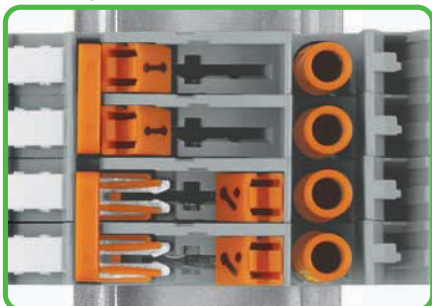
# Transverse Switching Terminal Blocks and Longitudinal Switching Disconnect Terminal Blocks, 282 Series – Description and Handling –

## Commoning



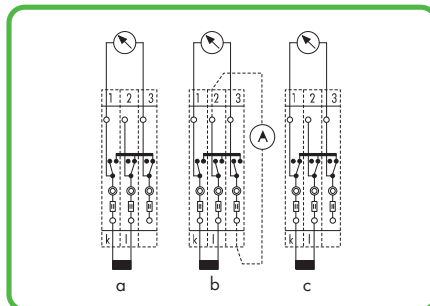
Transverse switching terminal blocks  
Left: Adjacent jumper for commoning of switch lever  
Right: Commoning with orange jumper

## Switch positions



Left: closed  
Right: open

## Current transformer circuit



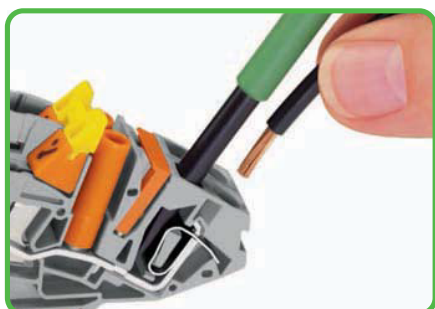
via transverse switching terminal blocks  
a = Normal operation b = Measurement testing  
c = Transformer short-circuit

## Testing

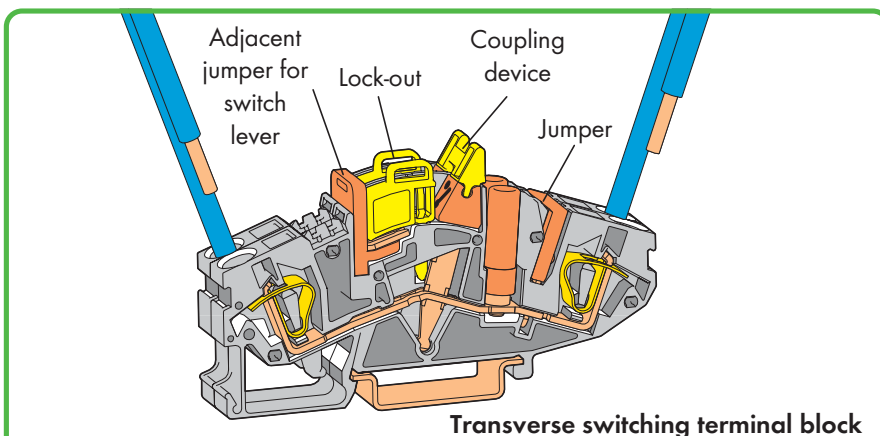


Testing with touch-proof test sockets 4 mm Ø.  
(not offered by WAGO)  
e.g., mfd by Multi-Contact Deutschland GmbH

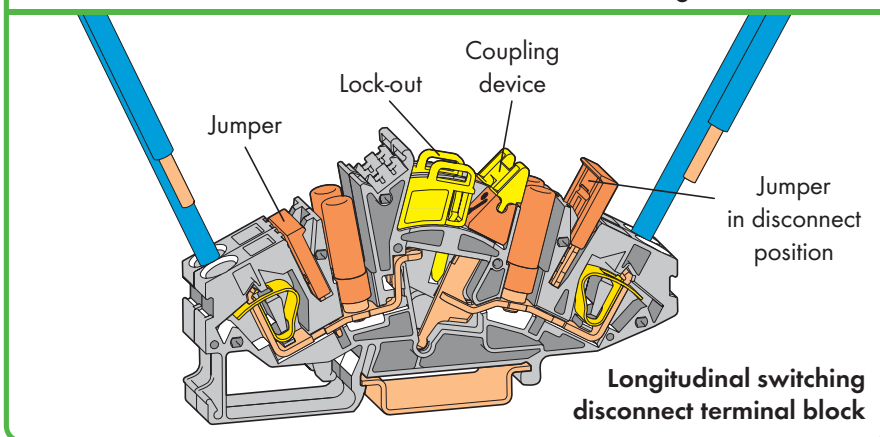
## CAGE CLAMP® connection



Conductor termination



Transverse switching terminal block



Longitudinal switching disconnect terminal block

## Lock-out



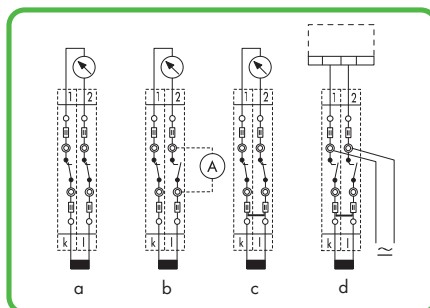
Inserting lock-out.

## Commoning



Longitudinal switching disconnect terminal blocks

## Current transformer circuit



via longitudinal switching disconnect terminal blocks  
a = Normal operation b = Measurement testing  
c = Transformer short-circuit d = Relay test

CAGE CLAMP®  
clamps the following  
copper conductors:\*

solid

stranded

fine-stranded,  
also with tinned  
single strands

fine-stranded,  
tip-bonded

fine-stranded,  
with ferrule ❶  
(gastight crimped)

fine-stranded,  
with pin terminal  
(gastight crimped)

\* For aluminum conductors, see notes in Section 1.4.

❶ When using ferrules, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.

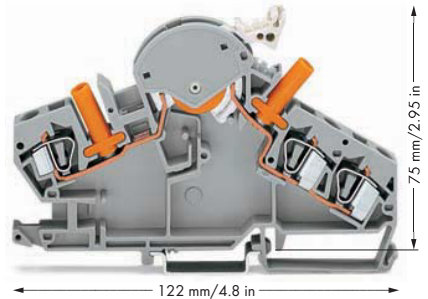
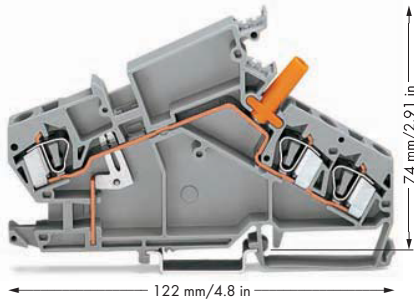
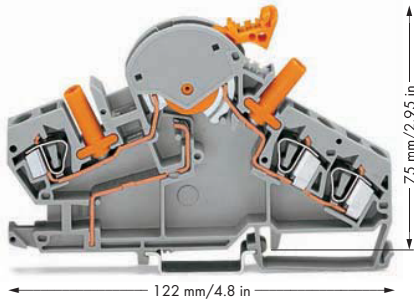
















# Disconnect Terminal Blocks for Test and Measurement, 6 mm<sup>2</sup>/30 A, Through Terminal Blocks for Current and Voltage Transformer Circuits 282 Series

0.2 - 6 mm<sup>2</sup>  
500 V/6 kV/3 ① 600 V, 30 A ②  
I<sub>N</sub> 30 A  
Terminal block width 8 mm / 0.315 in  
12 - 13 mm / 0.49 in ②

0.2 - 6 mm<sup>2</sup>  
500 V/6 kV/3 ① 600 V, 30 A ②  
I<sub>N</sub> 30 A  
Terminal block width 8 mm / 0.315 in  
12 - 13 mm / 0.49 in ②

0.2 - 6 mm<sup>2</sup>  
500 V/6 kV/3 ① 600 V, 30 A ②  
I<sub>N</sub> 30 A  
Terminal block width 8 mm / 0.315 in  
12 - 13 mm / 0.49 in ②



Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
<b>Disconnect terminal block for test and measurement</b> , e.g., current transformer circuits, with touch-proof test sockets, orange disconnect link  gray <b>282-870</b> ③ ④ 20		<b>Through terminal block</b> , e.g., current transformer circuits, with touch-proof test socket  gray <b>282-865</b> ④ 20		<b>Disconnect terminal block for test and measurement</b> , e.g., voltage transformer circuits, with touch-proof test sockets, light gray disconnect link  gray <b>282-860</b> ③ ④ 20	
<b>Item-Specific Accessories</b>		<b>Item-Specific Accessories</b>		<b>Item-Specific Accessories</b>	
<b>End and separator plate</b> , 1.5 mm thick, without use of lock-out seal  orange <b>282-386</b> 50 (5x10) gray <b>282-391</b> 50 (5x10)		<b>End and separator plate</b> , 1.5 mm thick  orange <b>282-385</b> 50 (5x10) gray <b>282-390</b> 50 (5x10)		<b>End and separator plate</b> , 1.5 mm thick, without use of lock-out seal  orange <b>282-386</b> 50 (5x10) gray <b>282-391</b> 50 (5x10)	
<b>End and separator plate</b> , 1.5 mm thick, for use of lock-out seal  orange <b>282-387</b> 50 (5x10) gray <b>282-392</b> 50 (5x10)		<b>WMB Multi marking system</b> , 10 strips with 10 markers per card, for terminal widths 5 - 17.5 mm, yellow  yellow k/1 (50x) <b>794-5553/000-002</b> 5		<b>End and separator plate</b> , 1.5 mm thick, for use of lock-out seal  orange <b>282-387</b> 50 (5x10) gray <b>282-392</b> 50 (5x10)	
<b>Lock-out</b> , for disconnect link  yellow <b>282-384</b> 100 (5x20)				<b>Lock-out</b> , for disconnect link  yellow <b>282-384</b> 100 (5x20)	
<b>Locking cover</b> , transparent, mechanically locks multiple links  1-pole <b>282-881</b> 50 (5x10) 2-pole <b>282-882</b> 50 (5x10) 3-pole <b>282-883</b> 50 (5x10) 4-pole <b>282-884</b> 50 (5x10) 5-pole <b>282-885</b> 50 (5x10) 6-pole <b>282-886</b> 50 (5x10) 7-pole <b>282-887</b> 50 (5x10) 8-pole <b>282-888</b> 50 (5x10)				<b>Locking cover</b> , transparent, mechanically locks multiple links  1-pole <b>282-881</b> 50 (5x10) 2-pole <b>282-882</b> 50 (5x10) 3-pole <b>282-883</b> 50 (5x10) 4-pole <b>282-884</b> 50 (5x10) 5-pole <b>282-885</b> 50 (5x10) 6-pole <b>282-886</b> 50 (5x10) 7-pole <b>282-887</b> 50 (5x10) 8-pole <b>282-888</b> 50 (5x10)	
<b>Interlocking link</b> , mechanically locks multiple links, 1 m/3'3" long transparent <b>210-254</b> 1				<b>Interlocking link</b> , mechanically locks multiple links, 1 m/3'3" long transparent <b>210-254</b> 1	
<b>Adjacent jumper</b> , insulated, I <sub>N</sub> 41 A orange <b>282-424</b> 100 (4x25)				<b>WMB Multi marking system</b> , 10 strips with 10 markers per card, for terminal widths 5 - 17.5 mm, blue  U/V (50x) <b>794-5554/000-006</b> 5	
<b>WMB Multi marking system</b> , 10 strips with 10 markers per card, for terminal widths 5 - 17.5 mm, yellow k/1 (50x) <b>794-5553/000-002</b> 5					