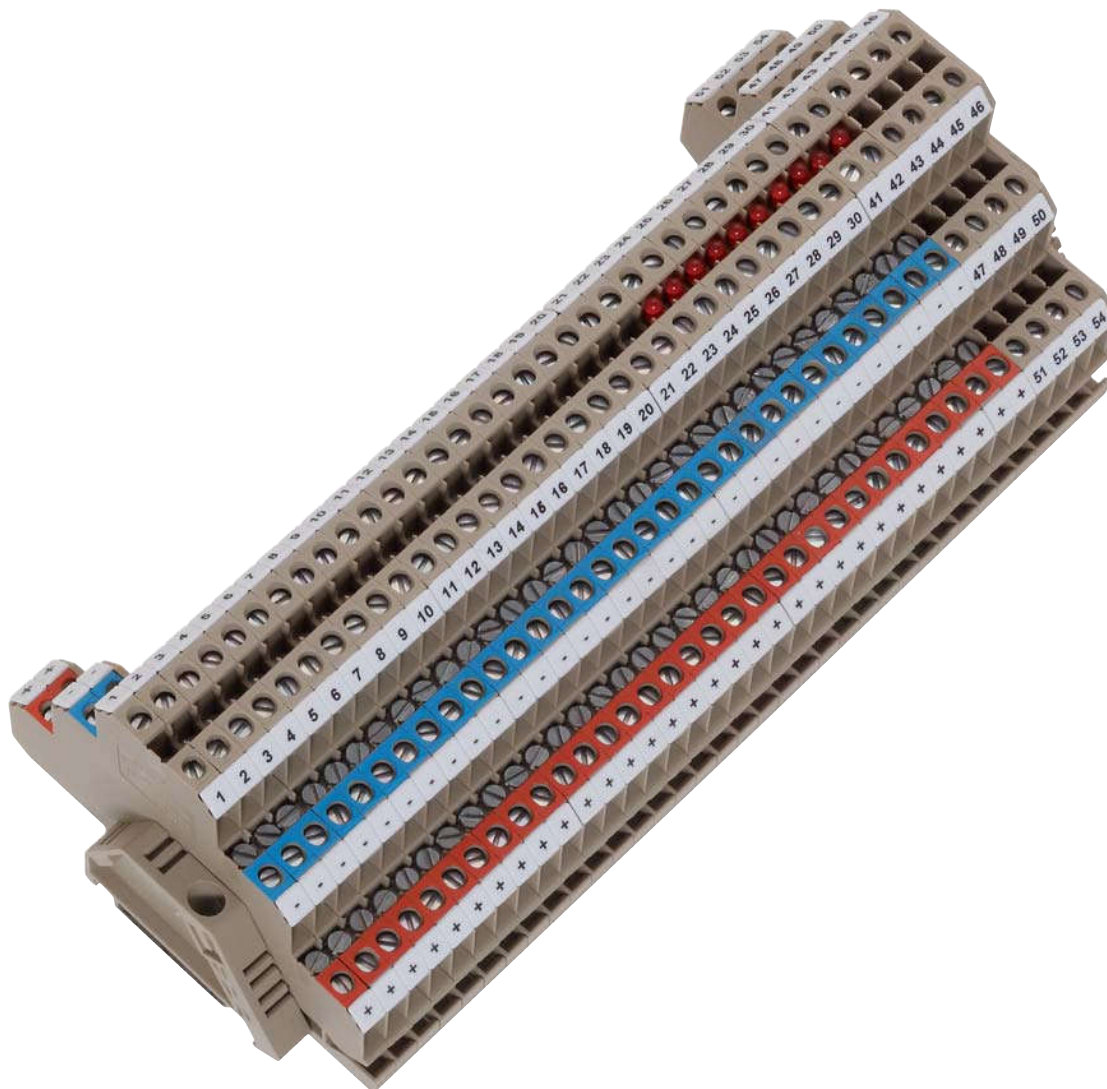


Three-level initiator terminals IKD/IK



In the field of machinery construction, inductive/capacitive proximity switches and diffuse-reflection sensors are being increasingly used for contactless switching purposes. These sensors are mostly designed for three-wire systems: plus and minus wires for the power supply and a third wire for switching signals. In order to ensure the proper overview of wiring and also to help you save time and space during your work, **CONTA-CLIP** offers a 5-mm thin initiator terminal with a screw connection – the **IK 2.5**. This product combines all of the connections found in an initiator or an actuator into a single terminal. When combined with the **IKD 2.5** power supply terminal, it is possible to connect the terminal strip of the **IK 2.5** initiator terminals to the power supply without any loss of poles.



Three-level initiator terminals IKD/IK

The features in detail

The **IKD 2.5** can be positioned anywhere in the terminal strip combination. If it is positioned at the start or in the middle of a terminal strip, the remaining exposed part of the **IKD 2.5** should be fitted with the short **AP/IKD** (catalogue no. 2714.2). The cross-distribution of the power supply takes place at the lower and middle levels using the **QS**, **VH** and **BS** accessory products or the pre-assembled **Q** cross-connector. The pre-assembled **Q** cross-connections are available with 2 to 10 poles or 100 poles.

The **IK 2.5** and **IKD 2.5** base terminals are also available with LED status displays. The display speeds up troubleshooting and signals the switching status.

This product line covers all standard control voltages, divided into the switching types “positive switching” or “negative switching”.

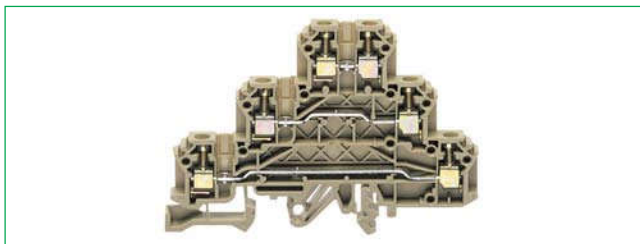
Features of the IK 2.5

- Thin design (5 mm)
- Closed wire entry
- One terminal per initiator for quick and precise signal assignment
- Touch-safe protection (VBG4) without an additional cover
- Colour-coding of plus (red) and minus (blue) connections
- Additional colour-coded labelling is possible

The IKD base terminals come in four variants:

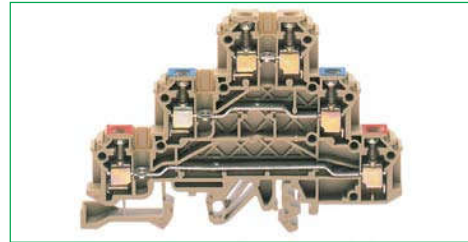
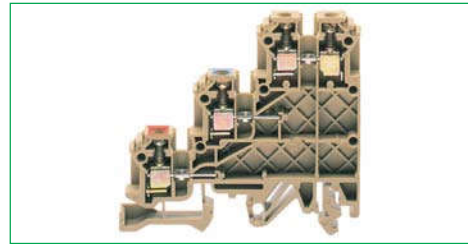
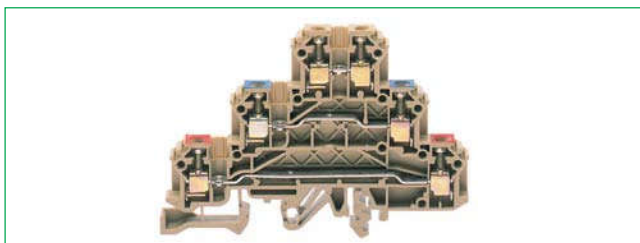
IKD 2.5

Raised-up rear wall, so cross-connection only possible on open side of terminal. Different supply voltages can be fed within one terminal combination.



IKD 2.5/F

Raised-up rear wall, so cross-connection only possible on open side of terminal. Different supply voltages can be fed within one terminal combination. The lower level is labelled red and the middle level is labelled blue.

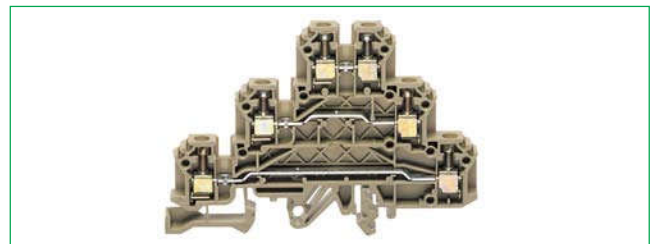


Features of the IKD 2.5

- Thin design (5 mm)
- Closed wire entry
- Switch signal and power supply can be connected
- Touch-safe protection (VBG4) without an additional cover

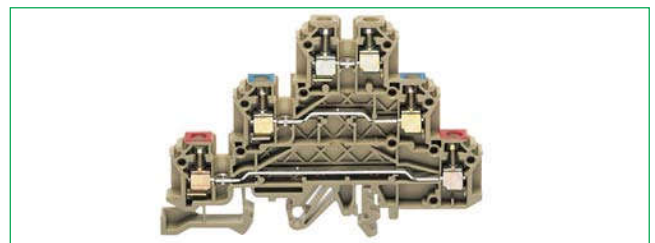
IKD 2.5/Q

Cross-connection is possible on open and closed sides of the terminal.



IKD 2.5/F/Q

Cross-connection is possible on open and closed sides of the terminal. The lower level is labelled red and the middle level is labelled blue.



Three-level initiator terminals IKD | IK

Screw connection system



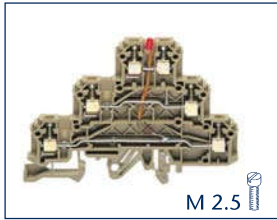
- Foot can be snapped on TS 32 and TS 35 DIN rails
- Housing made from polyamide 6.6 UL 94-V2

Connection diagram

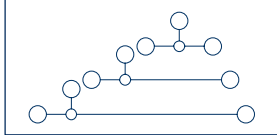
IKD 2.5	IKD 2.5/Q	IKD 2.5 F
M 2.5	M 2.5	M 2.5
Feed-through terminal 3x2 connections	Three-level initiator terminal, 6 connections	Three-level initiator terminal, 6 connections

Connection type	Screw connection			Screw connection			Screw connection		
Size (L x W x H) mm with TS 32 mm	84.8 x 5 x 62.8			84.8 x 5 x 62.8			84.8 x 5 x 62.8		
Size (L x W x H) mm with TS 35 x 7.5 mm	84.8 x 5 x 58.3			84.8 x 5 x 58.3			84.8 x 5 x 58.3		
Type		Qty.			Qty.			Qty.	
Type colour	IKD 2.5 BG	50		IKD 2.5/Q BG	50		IKD 2.5/F BG	50	
Cat. no.	1261.2			2268.2			1295.2		
Type colour	IKD 2.5 BU	20					IKD 2.5/F/Q BG	50	
Cat. no.	1261.5						2269.2		
Colours available	② ⑤			②			②		
Rated specifications acc. to	IEC	CSAus	CSA	IEC	CSAus	CSA	IEC	CSAus	CSA
Rated voltage, V	250	300	300	250	300	300	250	300	300
Rated current, A	24	20	20	24	20	20	24	20	20
Rated wire cross-section, mm ² AWG	2.5 22-14			2.5 22-14			2.5 22-14		
Rated impulse voltage, kV Contamination degree	4 3			4 3			4 3		
Plug gauge acc. to EN 60 947-1 Flamm. class acc. to UL 94	A3 V2			A3 V2			A3 V2		
Connection data									
Single wire (solid) / Stranded mm ²	0.2-4 -			0.2-4 -			0.2-4 -		
Stranded/stranded (w/ferrules acc. to DIN 46 228/1) mm ²	0.2-4 0.2-2.5			0.2-4 0.2-2.5			0.2-4 0.2-2.5		
Contact wire range, mm ²	0.2-4			0.2-4			0.2-4		
Stripping length, mm	7			7			7		
Torque, Nm Screw	0.4-0.8 Slotted M 2.5			0.4-0.8 Slotted M 2.5			0.4-0.8 Slotted M 2.5		
Special connection, mm	-			-			-		
Features									
Material of insulated housing Temperature range	PA 6.6 -40 to +105°C			PA 6.6 -40 to +105°C			PA 6.6 -40 to +105°C		
Number of cross-connection channels Test pick-off	3 -			3 -			3 -		
Accessories		Page	Qty.		Page	Qty.		Page	Qty.
End plate AP	AP 2.5/ID BG	278	20	AP 2.5/ID BG	278	20	AP 2.5/ID BG	278	20
Cat. no.	2699.2			2699.2			2699.2		
End plate AP, short	AP IKD 2.5/short BG	278	20	AP IKD 2.5/short BG	278	20	AP IKD 2.5/short BG	278	20
Cat. no.	2714.2			2714.2			2714.2		
Cross-connector Q	Q 2	288	50	Q 2	288	50	Q 2	288	50
Cat. no.	2422.0			2422.0			2422.0		
Cross-connection rail QS	QS 2	296	100	QS 2	296	100	QS 2	296	100
Cat. no.	2417.0			2417.0			2417.0		
Cross-connector Q	Q 3	288	50	Q 3	288	50	Q 3	288	50
Cat. no.	2423.0			2423.0			2423.0		
Cross-connection rail QS	QS 3	296	100	QS 3	296	100	QS 3	296	100
Cat. no.	2418.0			2418.0			2418.0		
Cross-connector Q	Q 4	288	20	Q 4	288	20	Q 4	288	20
Cat. no.	2424.0			2424.0			2424.0		
Cross-connection rail QS	QS 4	296	100	QS 4	296	100	QS 4	296	100
Cat. no.	2419.0			2419.0			2419.0		
Cross-connector Q	Q 10	288	10	Q 10	288	10	Q 10	288	10
Cat. no.	2425.0			2425.0			2425.0		
Cross-connection rail QS	QS 10	296	10	QS 10	296	10	QS 10	296	10
Cat. no.	2420.0			2420.0			2420.0		
Cross-connector Q	Q 20	288	10	Q 20	288	10	Q 20	288	10
Cat. no.	2700.0			2700.0			2700.0		
Cross-connector Q	Q 0.5m/100 poles	288	1	Q 0.5m/100 poles	288	1	Q 0.5m/100 poles	288	1
Cat. no.	2151.0			2151.0			2151.0		
Cross-connection rail QS	QS 0.5m	296	1	QS 0.5m	296	1	QS 0.5m	296	1
Cat. no.	2519.0			2519.0			2519.0		
Connecting sleeve VH	VH 5	297	100	VH 5	297	100	VH 5	297	100
Cat. no.	2327.0			2327.0			2327.0		
Mounting screw BS	BS M 2.5x10	297	100	BS M 2.5x10	297	100	BS M 2.5x10	297	100
Cat. no.	2326.0			2326.0			2326.0		
Screwdriver SDB	SDB 0.5x3,0	422	1	SDB 0.5x3,0	422	1	SDB 0.5x3,0	422	1
Cat. no.	1085.0			1085.0			1085.0		
Quick marking PMC SB	PMC SB 5/50 WH	339	500	PMC SB 5/50 WH	339	500	PMC SB 5/50 WH	339	500
Cat. no.	4600.7			4600.7			4600.7		

IKD 2.5 NPN/LED



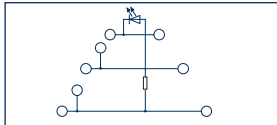
M 2.5



Three-level initiator terminal, 6 connections

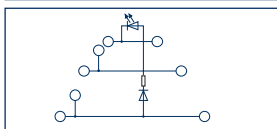
Screw connection
84.8 x 5 x 62.8
84.8 x 5 x 58.3

Cat. no. Qty.



IKD 2.5 NPN/DC/LED (RD)		
24 V	1289.2	50
48 V	1291.2	50
60 V	1293.2	50

IKD 2.5 NPN/DC/LED (GN)		
24 V	1290.2	50
48 V	1292.2	50
60 V	1294.2	50

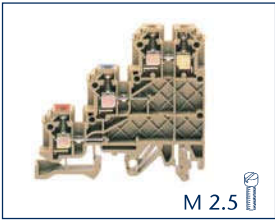


IKD 2.5 NPN/AC/LED (RD)		
220 V	1267.2	50

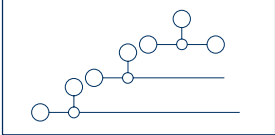
IKD 2.5 NPN/AC/LED (GN)		
220 V	1366.2	50

PA 6.6 | -40 to +105°C

IK 2.5



M 2.5



Three-level initiator terminal, 4 connections

Screw connection
62.8 x 5 x 62.8
62.8 x 5 x 58.3

Cat. no. Qty.

IK 2.5 BG		
1260.2		100

IEC	CSAus	CSA
250	300	300
24	20	20
2.5 22-14		

4 | 3
A3 | V2

0.2-4 | -
0.2-4 | 0.2-2.5

0.2-4

7

0.4-0.8 | Slotted M 2.5

-

PA 6.6 | -40 to +105°C

3 | -

Page Qty.

AP 2.5/ID BG			
2699.2	278	20	
AP IKD 2.5/short BG			
2714.2	278	20	

Q 2	2422.0	288	50
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QS 2	2417.0	296	100
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Q 3	2423.0	288	50
-----	---------------	-----	----

QS 3	2418.0	296	100
------	---------------	-----	-----

Q 4	2424.0	288	20
-----	---------------	-----	----

QS 4	2419.0	296	100
------	---------------	-----	-----

Q 10	2425.0	288	10
------	---------------	-----	----

QS 10	2420.0	296	10
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Q 20	2700.0	288	10
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Q 0.5m/100 poles	2151.0	288	1
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QS 0.5m	2519.0	296	1
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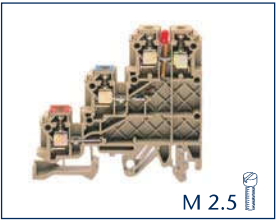
VH 5	2327.0	297	100
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BS M 2.5x10	2326.0	297	100
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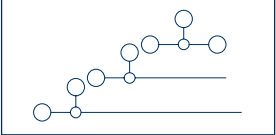
SDB 0.5x3,0	1085.0	422	1
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PMC SB 5/50 WH	4600.7	339	500
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IK 2.5 PNP/LED



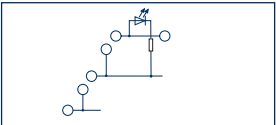
M 2.5



Three-level initiator terminal, 4 connections

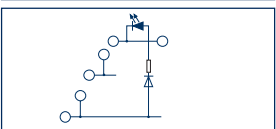
Screw connection
62.8 x 5 x 62.8
62.8 x 5 x 58.3

Cat. no. Qty.



IK 2.5 PNP/DC/LED (RD)		
24 V	1262.2	100
48 V	1271.2	100
60 V	1273.2	100

IK 2.5 PNP/DC/LED (GN)		
24 V	1263.2	100
48 V	1272.2	100
60 V	1274.2	100



IK 2.5 PNP/AC/LED (RD)		
220 V	1275.2	100

IK 2.5 PNP/AC/LED (GN)		
220 V	1276.2	100

PA 6.6 | -40 to +105°C

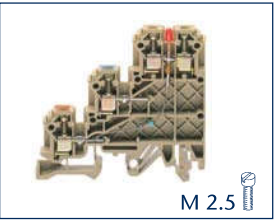
Page Qty.

AP 2.5/ID BG			
2698.2	278	20	

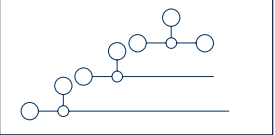
SDB 0.5x3,0	1085.0	422	1
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PMC SB 5/50 WH	4600.7	339	500
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IK 2.5 NPN/LED



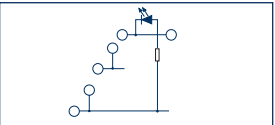
M 2.5



Three-level initiator terminal, 4 connections

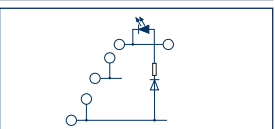
Screw connection
62.8 x 5 x 62.8
62.8 x 5 x 58.3

Cat. no. Qty.



IK 2.5 NPN/DC/LED (RD)		
24 V	1264.2	100
48 V	1277.2	100
60 V	1279.2	100

IK 2.5 NPN/DC/LED (GN)		
24 V	1265.2	100
48 V	1278.2	100
60 V	1280.2	100



IK 2.5 NPN/AC/LED (RD)		
220 V	1281.2	100

IK 2.5 NPN/AC/LED (GN)		
220 V	1282.2	100

PA 6.6 | -40 to +105°C

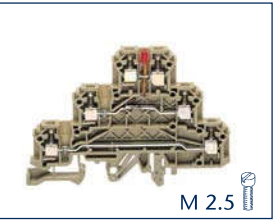
Page Qty.

AP 2.5/ID BG			
2698.2	278	20	

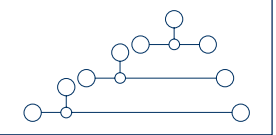
SDB 0.5x3,0	1085.0	422	1
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PMC SB 5/50 WH	4600.7	339	500
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IKD 2.5 PNP/LED



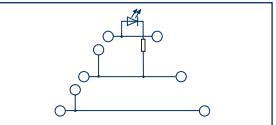
M 2.5



Three-level initiator terminal, 6 connections

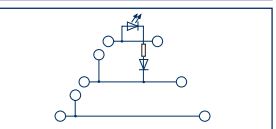
Screw connection
84.8 x 5 x 62.8
84.8 x 5 x 58.3

Cat. no. Qty.



IKD 2.5 PNP/DC/LED (RD)		
24 V	1283.2	50
48 V	1285.2	50
60 V	1287.2	50

IKD 2.5 PNP/DC/LED (GN)		
24 V	1284.2	50
48 V	1286.2	50
60 V	1288.2	50



IKD 2.5 PNP/AC/LED (RD)		
220 V	1266.2	50

IKD 2.5 PNP/AC/LED (GN)		
220 V	1299.2	50

PA 6.6 | -40 to +105°C

Page Qty.

AP 2.5/ID BG			
2699.2	278	20	
AP IKD 2.5/short BG			
2714.2	278	20	

SDB 0.5x3,0	1085.0	422	1
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PMC SB 5/50 WH	4600.7	339	500
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