

Terminal Blocks With Electronic Components

Fitting electronic components into a terminal block assembly turns the terminal point into an active part of the installation. The free space within the terminal carrier can be sensibly used for displaying signals, for suppressing sparks or for signal conditioning. The Weidmüller program focuses on

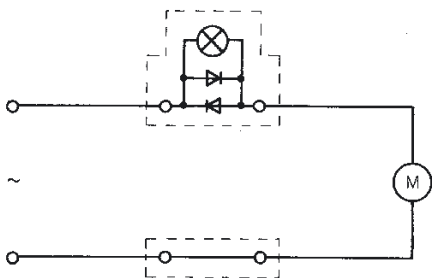
Terminal blocks with LED indicators

to indicate switching statuses, messages and operating voltages. These signals simplify commissioning, monitoring operations, servicing and repairs of installations. Available are double terminals for monitoring voltages and currents, fuse terminals with failure indication and disconnect terminals which signalize open disconnect points. Different colored LEDs, glow lamps (low power consumption) or filament bulbs are used for signal indication.

Application example:

- **Monitoring of ventilation motors**

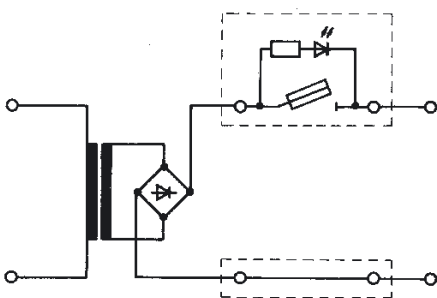
The indicated flow of current allows the operating status of the ventilator to be monitored.



Application example:

- **Fusing of a power supply module**

A lighted LED indicates the failure of the fuse, which causes a low residual current to flow through the terminal.



The fuse module EGS, page 286, enables status indication without residual currents.

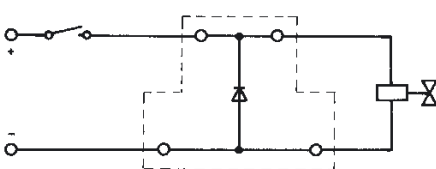
Terminal blocks with diodes

for suppressing inductivity or linking signals.

Application example:

- **Spark suppression when DC valve is switched**

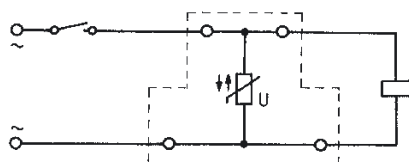
The electromagnetic energy stored in the coil fades through the diode on opening the contact.



Application example:

- **Protects contacts when an inductive AC load is switched**

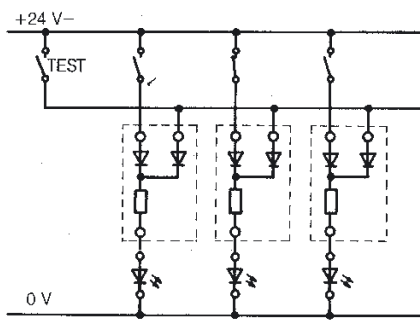
A varistor limits the peak voltage when load is switched off. This prevents arcing and related burning of the contacts.



Application example:

- **Test switch for LED display panels**

The series resistors for the LED are integrated in the terminal. Two diodes decouple control and test signals.

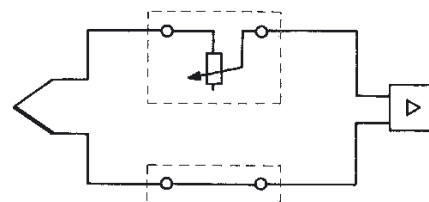


Compensating Terminals

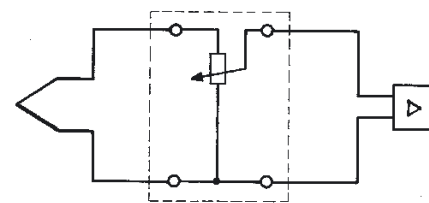
Different cable lengths and tolerances for the sensors in measurement, control and regulation technology require compensation of the circuits. A combination of a rail-mounted terminal and potentiometer is the solution: Type SAKL 4.

Application example:

- **Temperature measurement**



A further variation with a terminal block combination as voltage divider is available.



Standards:

The following standards are fulfilled:

DIN VDE EN 50178:

Equipping power installations with electronic equipment

DIN VDE 0110/79:

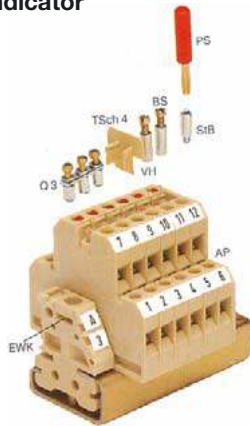
Rated insulation voltage

DIN VDE 0611 T.1/IEC 60 947-7-1:

Requirements placed on terminal blocks with or without screw terminal points.

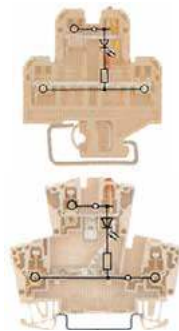
Terminal Blocks

With indicator



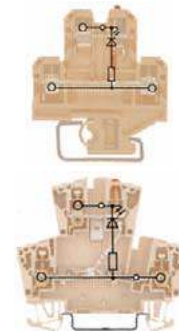
DK 4 LD WDK 2.5 LD

DC voltage indicator



DK 4 LD WDK 2.5 LD

DC voltage indicator



Dimension details DK 4/WDK 2.5	
Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm
Connection data	
Screw connection, flexible	DK 4
Screw connection, flexible	WDK 2.5
Conductor cross-section	DK 4
Conductor cross-section	WDK 2.5
VDE rated data	
Current of one-piece busbar	
Cross-section	DK 4
Cross-section	WDK 2.5
LED current	
Voltage	
Indicator (other versions on request)	LED

50/69			
56.5/63			
6/5			
9/10			
0.5...4 mm ²			
0.5...2.5 mm ²			
AWG 22...12			
AWG 26...12			
10 A			
4 mm ²			
2.5 mm ²			
< 5 mA			
6 V-	24 V-	24 V-	60 V-
red	red	green	red

50/69			
56.5/63			
6/5			
9/10			
0.5...4 mm ²			
0.5...2.5 mm ²			
AWG 22...12			
AWG 26...12			
10 A			
4 mm ²			
2.5 mm ²			
< 5 mA			
6 V-	24 V-	24 V-	60 V-
red	red	green	red

Ordering data	
Type	
Cat. No.	for TS 32
Type	
Cat. No.	for TS 35
Type	
Cat. No.	for TS 35

DK 4 LD/32	DK 4 LD/32	DK 4 LD/32	DK 4 LD/32
0582860000	0495360000	0686360000	0643360000
DK 4 LD/35	DK 4 LD/35	DK 4 LD/35	DK 4 LD/35
0395360000	0539060000	0395460000	0395560000
	WDK 2.5 LD	WDK 2.5 LD	
	8023630000	8010040000	

DK 4 LD/32	DK 4 LD/32	DK 4 LD/32	DK 4 LD/32
0582960000	0474460000	0646560000	0639660000
DK 4 LD/35	DK 4 LD/35	DK 4 LD/35	DK 4 LD/35
0395660000	0539160000	0395760000	0395860000
	WDK 2.5 LD	WDK 2.5 LD	
	1023600000	8023610000	

Accessories DK 4	
Mounting rail (2 m lengths)	TS 32
	TS 35
End bracket (thickness mm)	for TS 32 EWK 1 (8.5)
	for TS 35 EW 35 (8.5)
End plate (thickness mm)	AP PA (1.5)
Small partition	TSch 4
Socket contact for test plug	
Test plug (pin diameter ø 2.3 mm)	
Cross-connector (pre-assembled)	2-pole
	3-pole
	4-pole
	10-pole
Switchable cross-connecting link	
Connection sleeve	
Fixing screw	
Cross-connecting bridge	

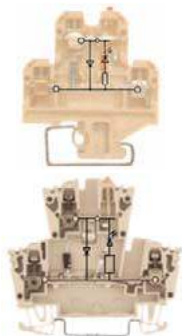
Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	50
AP PA	0359260000	20
TSch4	0363360000	100
StB 8.5	0215700000	50
PS	0180400000	20
Q 2	0336400000	50
Q 3	0336500000	50
Q 4	0336600000	50
Q 10	0368600000	20
VL 2	0446700000	50
VH 10	0446600000	100
BS M 2.5x14	0266800000	100
QB 2 ¹⁾	0482700000	100
QB 3 ¹⁾	0482800000	50
QB 4 ¹⁾	0482900000	50
QB 75 bare	0526400000	10
Insulating profile	0526700000	-

Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	50
AP PA	0359260000	20
TSch4	0363360000	100
StB 8.5	0215700000	50
PS	0180400000	20
Q 2	0336400000	50
Q 3	0336500000	50
Q 4	0336600000	50
Q 10	0368600000	20
VL 2	0446700000	50
VH 10	0446600000	100
BS M 2.5x14	0266800000	100
QB 2 ¹⁾	0482700000	100
QB 3 ¹⁾	0482800000	50
QB 4 ¹⁾	0482900000	50
QB 75 bare	0526400000	10
Insulating profile	0526700000	-

¹⁾When using QB conductor connection, max. 2.5 mm²

DK 4 LD

DC **voltage** indicator



50
56.5
6
9
0.5...4 mm ²
0.5...2.5 mm ²
AWG 22...12
-
10 A
4 mm ²
-
< 5 mA
24 V~ 24 V~
red green

DK 4 LD/32	DK 4 LD/32
0210160000	0210360000

DK 4 LD/35	DK 4 LD/35
0210260000	0210460000

WDK 2.5 LD	WDK 2.5 LD
8019050000	8161430000

Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	50
AP PA	0359260000	20
TSch 4	0363360000	100
StB 8.5	0215700000	50
PS	0180400000	20
Q 2	0336400000	50
Q 3	0336500000	50
Q 4	0336600000	50
Q 10	0368600000	20
VL 2	0446700000	50
VH 10	0446600000	100
BS M 2.5x14	0266800000	100
QB 2 ¹⁾	0482700000	100
QB 3 ¹⁾	0482800000	50
QB 4 ¹⁾	0482900000	50
QB 75 bare	0526400000	10
Insulation profile	0526700000	-

DK 4 LD

DC **voltage** indicator



50
56.5
6
9
0.5...4 mm ²
0.5...2.5 mm ²
AWG 22...12
-
10 A
4 mm ²
-
< 5 mA
24 V~ 24 V~
red green

DK 4 LD/32	DK 4 LD/32
0209760000	0209960000

DK 4 LD/35	DK 4 LD/35
0209860000	0210060000

Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	50
AP PA	0359260000	20
TSch 4	0363360000	100
StB 8.5	0215700000	50
PS	0180400000	20
Q 2	0336400000	50
Q 3	0336500000	50
Q 4	0336600000	50
Q 10	0368600000	20
VL 2	0446700000	50
VH 10	0446600000	100
BS M 2.5x14	0266800000	100
QB 2 ¹⁾	0482700000	100
QB 3 ¹⁾	0482800000	50
QB 4 ¹⁾	0482900000	50
QB 75 bare	0526400000	10
Insulation profile	0526700000	-

DK 4 LD
WDK 2.5 LD

Alternating **voltage** indicator



50/69
56.5/63
6/5
9/10
0.5...4 mm ²
0.5...2.5 mm ²
AWG 22...12
AWG 26...12
10 A
4 mm ²
2.5 mm ²
< 5 mA
24 V~ 48 V~ 115 V~ 230 V~
red red red red

DK 4 LD/32	DK 4 LD/32	DK 4 LD/32	DK 4 LD/32
0495460000	0632860000	0586560000	1111460000

DK 4 LD/35	DK 4 LD/35	DK 4 LD/35	DK 4 LD/35
0395960000	0396060000	0396160000	1111560000

WDK 2.5 LD	WDK 2.5 LD
8006320000	8013140000

Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	50
AP PA	0359260000	20
TSch 4	0363360000	100
StB 8.5	0215700000	50
PS	0180400000	20
Q 2	0336400000	50
Q 3	0336500000	50
Q 4	0336600000	50
Q 10	0368600000	20
VL 2	0446700000	50
VH 10	0446600000	100
BS M 2.5x14	0266800000	100
QB 2 ¹⁾	0482700000	100
QB 3 ¹⁾	0482800000	50
QB 4 ¹⁾	0482900000	50
QB 75 bare	0526400000	10
Insulating profile	0526700000	-

DK 4 LD
WDK 2.5 GL

Alternating **voltage** indicator



50/69
56.5/63
6/5
9/10
0.5...4 mm ²
0.5...2.5 mm ²
AWG 22...12
AWG 26...12
10 A
4 mm ²
2.5 mm ²
< 5 mA
115 V~ 230 V~
Glow lamp

DK 4GL/32	DK 4 GL/32
0569560000	0509560000

DK 4 GL/35	DK 4 GL/35
0396260000	0663160000

WDK 2.5 GL
8013840000

Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	50
AP PA	0359260000	20
TSch 4	0363360000	100
QB 2 ¹⁾	0482700000	100
QB 3 ¹⁾	0482800000	50
QB 4 ¹⁾	0482900000	50
QB 75 bare	0526400000	10
Insulation profile	0526700000	-

DK 4 Q GL

Alternating **voltage** indicator



50
56.5
6
9
0.5...4 mm ²
0.5...4 mm ²
AWG 22...12
-
10 A
4 mm ²
-
< 5 mA
230~
Glow lamp

DK 4 Q GL/35
1120260000

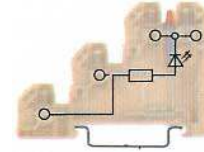
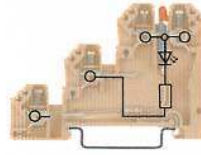
Type	Cat. No.	Qty.
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	50
TSch 4	0363360000	100
QB 2 ¹⁾	0482700000	100
QB 3 ¹⁾	0482800000	50
QB 4 ¹⁾	0482900000	50
QB 75 bare	0526400000	10
Insulation profile	0526700000	-


Terminal Blocks

With indicator

DLI 2.5 LD/35 PNP

DLI 2.5 LD/35 NPN



Dimensions							
Length	mm	65		65			
Height (incl. TS 32/TS 35x7.5)	mm	-/49		-/49			
Terminal width (+ assembly tolerance 0.2)	mm	6		6			
Insulation stripping length	mm	7		7			
Connection data							
Screw connection, solid core		0.5...2.5 mm ²		0.5...2.5 mm ²			
Screw connection, flexible		0.5...2.5 mm ²		0.5...2.5 mm ²			
Conductor cross-section		AWG 22...14		AWG 22...14			
VDE rated data							
Current of through-busbar		20 A		20 A			
Cross-section		2.5 mm ²		2.5 mm ²			
Permissible current range		-		-			
LED current		< 5 mA		< 5 mA			
Voltage other versions on request							
		5...30 V-		5...30 V-			
Ordering data		Type	Cat. No.	Type	Cat. No.		
	for TS 35 	DLI 2.5 LD/35 PNP		DLI 2.5 LD/35 NPN			
	LED red	1578510000		1578550000			
	LED green	1578520000		1578560000			
Block of 10 (with built-in cross-connections)							
	LED red	1578530000					
	LED green	1578540000					
Accessories		Type	Cat. No.	Qty.	Type	Cat. No.	Qty.
Mounting rail (2 m lengths)		-	-	-	-	-	-
		TS 35	0383400000	-	TS 35	0383400000	-
End bracket (thickness mm)							
	for TS 35 EW 35 (8.5)	EW 35 (8.5)	0383560000	50	EW 35 (8.5)	0383560000	50
End plate (thickness mm)	AP PA (1.5)	AP PA	1313260000	20	AP PA	1313260000	20
Cross-connector (pre-assembled)							
	2-pole	Q 2	1312500000	50	Q 2	1312500000	50
	3-pole	Q 3	1312600000	50	Q 3	1312600000	50
	4-pole	Q 4	1312700000	50	Q 4	1312700000	50
	10-pole	Q 10	1313100000	20	Q 10	1313100000	20
Connection sleeve		VH 3.8	1345800000	100	VH 3.8	1345800000	100
Cross-connection bracket		QL 2	029720	100	QL 2	0297200000	100

Terminal Blocks

With diodes

(other versions on request)



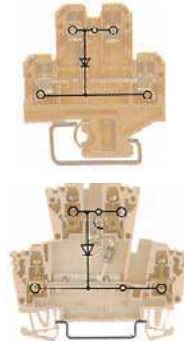
DK 4 D WDK 2.5 D

Diode terminal, i.e. as reverse voltage protection



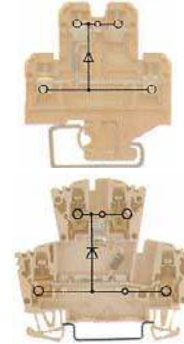
DK 4 D WDK 2.5 D

Arc suppression circuit for contactors and solenoid (valves DC)



DK 4 D WDK 2.5 D

Arc suppression circuit for contactors and solenoid (valves DC)



Dimension details DK 4/WDK 2.5	
Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm
Connection data	
Screw connection, flexible	DK 4
Screw connection, flexible	WDK 2.5
Conductor cross-section	DK 4
Conductor cross-section	WDK 2.5
VDE rated data	
Voltage	380 V~
Diode reverse voltage	1000 V
Diode current	1 A
Current of through-basbar	10 A
Diode	1 N 4007
Terminal colour	
beige	
Ordering data	
Type	DK 4 D/32
Cat. No.	for TS 32 0544660000
Type	DK 4 D/35
Cat. No.	for TS 35 0396360000
Type	WDK 2.5 D
Cat. No.	for TS 35 8025610000
Accessories DK 4 ¹⁾	
Mounting rail (2 m lengths)	TS 32
	TS 35
End bracket (thickness mm)	for TS 32 EWK 1 (8.5)
	for TS 35 EW 35 (8.5)
End plate (thickness mm)	AP PA (1.5)
Small partition	TSch 4
Socket contact for test plug	
Test plug (pin diameter ø 2.3 mm)	
Cross-connector (pre-assembled)	2-pole
	3-pole
	4-pole
	10-pole
Switchable cross-connecting link	
Connection sleeve	
Fixing screw	
Cover plate	
Fixing screw (plastic)	
Cross-connecting bridge	

Length	50/69	
Height (incl. TS 32/TS 35x7.5)	56.5/63	
Terminal width (+ assembly tolerance 0.2)	6/5	
Insulation stripping length	9/10	
Connection data		
Screw connection, flexible	0.5...4 mm ²	
Screw connection, flexible	0.5...2.5 mm ²	
Conductor cross-section	AWG 22...12	
Conductor cross-section	AWG 26...12	
VDE rated data		
Voltage	380 V~	
Diode reverse voltage	1000 V	
Diode current	1 A	
Current of through-basbar	10 A	
Diode	1 N 4007	
Terminal colour		
beige		
Ordering data		
Type	DK 4 D/32	
Cat. No.	0544660000	
Type	DK 4 D/35	
Cat. No.	0396360000	
Type	WDK 2.5 D	
Cat. No.	8025610000	
Accessories DK 4 ¹⁾		
Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	-
AP PA	0359260000	20
WAP/DK 2.5	1059100000	20
TSch 4	0363360000	100
StB 8.5	0215700000	50
PS	0180400000	20
Q 2	0336400000	50
Q 3	0336500000	50
Q 4	0336600000	50
Q 10	0368600000	20
VL 2	0446700000	50
VH 10	0446600000	100
BSM 2.5x14	0266800000	100
AD 4 (4 term.)	0303400000	50
BSKM 2.5x18	0303300000	100
QB 2 ²⁾	0482700000	100
QB 3 ²⁾	0482800000	50
QB 4 ²⁾	0482900000	50
QB 75 bare	0526400000	10
Insul. profile	0526700000	-

Length	50/69	
Height (incl. TS 32/TS 35x7.5)	56.5/63	
Terminal width (+ assembly tolerance 0.2)	6/5	
Insulation stripping length	9/10	
Connection data		
Screw connection, flexible	0.5...4 mm ²	
Screw connection, flexible	0.5...2.5 mm ²	
Conductor cross-section	AWG 22...12	
Conductor cross-section	AWG 26...12	
VDE rated data		
Voltage	380 V~	
Diode reverse voltage	1000 V	
Diode current	1 A	
Current of through-basbar	10 A	
Diode	1 N 4007	
Terminal colour		
beige	blue	
Ordering data		
Type	DK 4 D/32	
Cat. No.	0484060000	
Type	DK 4 D/35	
Cat. No.	0538960000	
Type	WDK 2.5 D	
Cat. No.	1023400000	
Accessories DK 4 ¹⁾		
Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	-
AP PA	0359260000	20
WAP/DK 2.5	1059100000	20
TSch 4	0363360000	100
StB 8.5	0215700000	50
PS	0180400000	20
Q 2	0336400000	50
Q 3	0336500000	50
Q 4	0336600000	50
Q 10	0368600000	20
VL 2	0446700000	50
VH 10	0446600000	100
BSM 2.5x14	0266800000	100
AD 4 (4 term.)	0303400000	50
BSKM 2.5x18	0303300000	100
QB 2 ²⁾	0482700000	100
QB 3 ²⁾	0482800000	50
QB 4 ²⁾	0482900000	50
QB 75 bare	0526400000	10
Insul. profile	0526700000	-

Length	50/69	
Height (incl. TS 32/TS 35x7.5)	56.5/63	
Terminal width (+ assembly tolerance 0.2)	6/5	
Insulation stripping length	9/10	
Connection data		
Screw connection, flexible	0.5...4 mm ²	
Screw connection, flexible	0.5...2.5 mm ²	
Conductor cross-section	AWG 22...12	
Conductor cross-section	AWG 26...12	
VDE rated data		
Voltage	380 V~	
Diode reverse voltage	1000 V	
Diode current	1 A	
Current of through-basbar	10 A	
Diode	1 N 4007	
Terminal colour		
beige	blue	
Ordering data		
Type	DK 4 D/32	
Cat. No.	0467960000	
Type	DK 4 D/35	
Cat. No.	0538860000	
Type	WDK 2.5 D	
Cat. No.	1023300000	
Accessories DK 4 ¹⁾		
Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	-
AP PA	0359260000	20
WAP/DK 2.5	1059100000	20
TSch 4	0363360000	100
StB 8.5	0215700000	50
PS	0180400000	20
Q 2	0336400000	50
Q 3	0336500000	50
Q 4	0336600000	50
Q 10	0368600000	20
VL 2	0446700000	50
VH 10	0446600000	100
BSM 2.5x14	0266800000	100
AD 4 (4 term.)	0303400000	50
BSKM 2.5x18	0303300000	100
QB 2 ²⁾	0482700000	100
QB 3 ²⁾	0482800000	50
QB 4 ²⁾	0482900000	50
QB 75 bare	0526400000	10
Insul. profile	0526700000	-

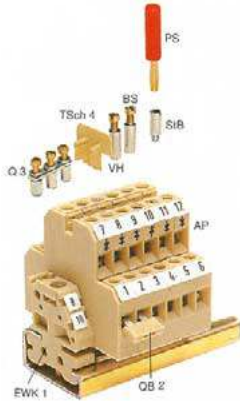
¹⁾ Accessories for WDK 2.5 see sectional catalogue: Terminals

²⁾ When using QB conductor connection, max. 2.5 mm²

Terminal Blocks

With diodes

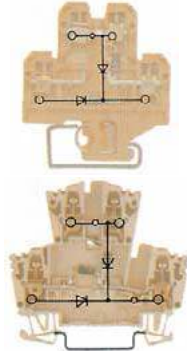
(other versions on request)



DK 4 D

WDK 2.5 D

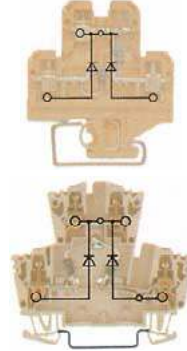
Diode terminals for lamp test circuits



DK 4 D

WDK 2.5 D

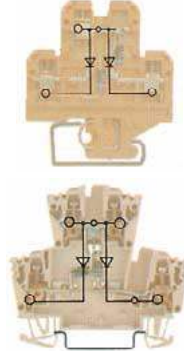
Diode terminals for lamp test circuits



DK 4 D

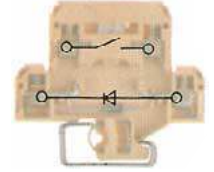
WDK 2.5 D

Diode terminals for lamp test circuits



DKT 4 D

Diode terminal for central control circuits



Dimension details DK 4/WDK 2.5					
Length	mm	50/69	50/69	50/69	65
Height (incl. TS 32/TS 35x7.5)	mm	56.5/63	56.5/63	56.5/63	56.5
Terminal width (+ assembly tolerance 0.2)	mm	6/5	6/5	6/5	6
Insulation stripping length	mm	9/10	9/10	9/10	9
Connection data					
Screw connection, flexible	DK 4	0.5...4 mm ²	0.5...4 mm ²	0.5...4 mm ²	0.5...4 mm ²
Screw connection, flexible	WDK 2.5	0.5...2.5 mm ²	0.5...2.5 mm ²	0.5...2.5 mm ²	-
Conductor cross-section	DK 4	AWG 22...12	AWG 22...12	AWG 22...12	AWG 22...12
Conductor cross-section	WDK 2.5	AWG 26...12	AWG 26...12	AWG 26...12	-
VDE rated data					
Voltage		380 V~	380 V~	380 V~	380 V~
Diode reverse voltage		1000 V	1000 V	1000 V	1000 V
Diode current		1 A	1 A	1 A	1 A
Current of through-basbar		10 A	10 A	10 A	10 A
Diode		1 N 4007	1 N 4007	1 N 4007	1 N 4007

Terminal colour					
		beige	beige	beige	beige
Ordering data					
Type		DK 4 D/32	DK 4 D/32	DK 4 D/32	DK 4 D/32
Cat. No.	for TS 32	0642760000	0523760000	0663960000	1161260000
Type		DK 4 D/35	DK 4 D/35	DK 4 D/35	DK 4 D/35
Cat. No.	for TS 35	0396660000	0396860000	0396760000	1159060000
Type		WDK 2.5 D	WDK 2.5 D	WDK 2.5 D	
Cat. No.	for TS 35	1023500000	1022600000	8014670000	

Accessories DK 41)		Type	Cat. No.	Qty.	Type	Cat. No.	Qty.	Type	Cat. No.	Qty.	Type	Cat. No.	Qty.
Mounting rail (2 m lengths)	TS 32	TS 32	0122800000	-	TS 32	0122800000	-	TS 32	0122800000	-	TS 32	0122800000	-
	TS 35	TS 35	0383400000	-	TS 35	0383400000	-	TS 35	0383400000	-	TS 35	0383400000	-
End bracket (thickness mm)	for TS 32 EWK 1 (8.5)	EWK 1	0206160000	50	EWK 1	0206160000	50	EWK 1	0206160000	50	EWK 1	0206160000	50
	for TS 35 EW 35 (8.5)	EW 35	0383560000	-	EW 35	0383560000	-	EW 35	0383560000	-	EW 35	0383560000	-
End plate (thickness mm)	AP PA (1.5)	AP PA	0359260000	20	AP PA	0359260000	20	AP PA	0359260000	20	AP PA	0359260000	20
		WAP/DK 2.5	1059100000	20	WAP/DK 2.5	1059100000	20	WAP/DK 2.5	1059100000	20	WAP/DK 2.5	1059100000	20
Small partition	TSch 4	TSch 4	0363360000	100	TSch 4	0363360000	100	TSch 4	0363360000	100	TSch 4	0363360000	100
Socket contact for test plug		StB 8.5	0215700000	50	StB 8.5	0215700000	50	StB 8.5	0215700000	50	StB 8.5	0215700000	50
Test plug (pin diameter ø 2.3 mm)		PS	0180400000	20	PS	0180400000	20	PS	0180400000	20	PS	0180400000	20
Cross-connector (pre-assembled)	2-pole	Q 2	0336400000	50	Q 2	0336400000	50	Q 2	0336400000	50	Q 2	0336400000	50
	3-pole	Q 3	0336500000	50	Q 3	0336500000	50	Q 3	0336500000	50	Q 3	0336500000	50
	4-pole	Q 4	0336600000	50	Q 4	0336600000	50	Q 4	0336600000	50	Q 4	0336600000	50
	10-pole	Q 10	0368600000	20	Q 10	0368600000	20	Q 10	0368600000	20	Q 10	0368600000	20
		VL 2	0446700000	50	VL 2	0446700000	50	VL 2	0446700000	50	VL 2	0446700000	50
Switchable cross-connecting link		VH 10	0446600000	100	VH 10	0446600000	100	VH 10	0446600000	100	VH 10	0446600000	100
Connection sleeve		BS M 2.5x14	0266800000	100	BS M 2.5x14	0266800000	100	BS M 2.5x14	0266800000	100	BS M 2.5x14	0266800000	100
Fixing screw		AD 4 (4 term.)	0303400000	50	AD 4 (4 term.)	0303400000	50	AD 4 (4 term.)	0303400000	50	AD 4 (4 term.)	0303400000	50
Cover plate		BSKM 2.5x18	0303300000	100	BSKM 2.5x18	0303300000	100	BSKM 2.5x18	0303300000	100	BSKM 2.5x18	0303300000	100
Fixing screw (plastic)		QB 2 ²⁾	0482700000	100	QB 2 ²⁾	0482700000	100	QB 2 ²⁾	0482700000	100	QB 2 ²⁾	0482700000	100
Cross-connecting bridge		QB 3 ²⁾	0482800000	50	QB 3 ²⁾	0482800000	50	QB 3 ²⁾	0482800000	50	QB 3 ²⁾	0482800000	50
		QB 4 ²⁾	0482900000	50	QB 4 ²⁾	0482900000	50	QB 4 ²⁾	0482900000	50	QB 4 ²⁾	0482900000	50
		QB 75 bare	0526400000	10	QB 75 bare	0526400000	10	QB 75 bare	0526400000	10	QB 75 bare	0526400000	10
		Insul. profile	0526700000	-	Insul. profile	0526700000	-	Insul. profile	0526700000	-	Insul. profile	0526700000	-

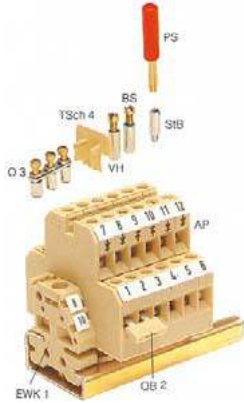
¹⁾ Accessories for WDK 2.5 see sectional catalogue: Terminals

²⁾ When using QB conductor connection, max. 2.5 mm²

Terminal Blocks

With electronic components

(other versions on request)

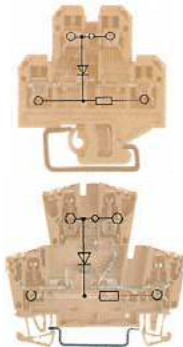


Dimension details DK 4/WDK 2.5	
Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm
Connection data	
Screw connection, flexible	DK 4
Screw connection, flexible	WDK 2.5
Conductor cross-section	DK 4
Conductor cross-section	WDK 2.5
VDE rated data	
Voltage	24 V-
Diode current	1 A
Current of through-busbar	10 A
Operating temperature range	
Diode	1 N 4007
Resistance	1.5 kΩ
Capacitor	-
Ordering data	
Type	DK 4 D/32
Cat. No.	for TS 32 0685260000
Type	DK 4 D/35
Cat. No.	for TS 35 0396960000
Type	WDK 2.5 D
Cat. No.	for TS 35 8016940000
Accessories DK 4 ¹⁾	
Mounting rail (2 m lengths)	TS 32
	TS 35
End bracket (thickness mm)	for TS 32 EWK 1 (8.5)
	for TS 35 EW 35 (8.5)
End plate (thickness mm)	AP PA (1.5)
Small partition	TSch 4
Partition (thickness mm)	
Socket for test plug	
Test plug (pin diameter ø 2.3 mm)	
Contact sleeve	
Cross-connector (pre-assembled)	2-pole
	3-pole
	4-pole
	10-pole
Switchable cross-connecting link	
Connection sleeve	
Fixing screw	
Cover plate	
Fixing screw (plastic)	
Cross-connecting bridge	

DK 4 D

WDK 2.5 D

Diode terminal for lamp test circuits, with series resistor

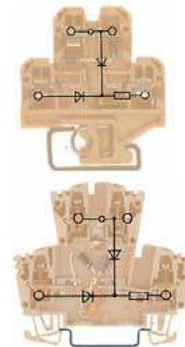


Length	50/69	
Height (incl. TS 32/TS 35x7.5)	56.5/63	
Terminal width (+ assembly tolerance 0.2)	6/5	
Insulation stripping length	9/10	
Connection data		
Screw connection, flexible	0.5...4 mm ²	
Screw connection, flexible	0.5...2.5 mm ²	
Conductor cross-section	AWG 22...12	
Conductor cross-section	AWG 26...12	
VDE rated data		
Voltage	24 V-	
Diode current	1 A	
Current of through-busbar	10 A	
Operating temperature range		
Diode	1 N 4007	
Resistance	1.5 kΩ	
Capacitor	-	
Ordering data		
Type	DK 4 D/32	
Cat. No.	0685260000	
Type	DK 4 D/35	
Cat. No.	0396960000	
Type	WDK 2.5 D	
Cat. No.	8016940000	
Accessories DK 4 ¹⁾		
Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	-
AP PA	0359260000	20
TSch 4	0363360000	100
StB 8.5	0215700000	50
PS	0180400000	20
Q 2	0336400000	50
Q 3	0336500000	50
Q 4	0336600000	50
Q 10	0368600000	20
VL 2	0446700000	50
VH 10	0446600000	100
BS M 2.5x14	0266800000	100
AD 4 (4 term.)	0303400000	50
BSKM 2.5x18	0303300000	100
QB 2 ²⁾	0482700000	100
QB 3 ²⁾	0482800000	50
QB 4 ²⁾	0482900000	50
QB 75 bare	0526400000	10
Insul. profile	0526700000	-

DK 4 D

WDK 2.5 D

Diode terminal for lamp test circuits, with series resistor



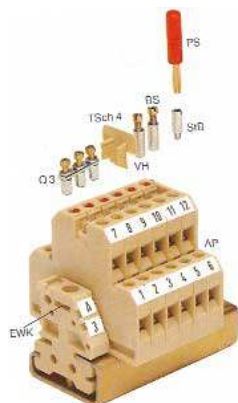
Length	50/69	
Height (incl. TS 32/TS 35x7.5)	56.5/63	
Terminal width (+ assembly tolerance 0.2)	6/5	
Insulation stripping length	9/10	
Connection data		
Screw connection, flexible	0.5...4 mm ²	
Screw connection, flexible	0.5...2.5 mm ²	
Conductor cross-section	AWG 22...12	
Conductor cross-section	AWG 26...12	
VDE rated data		
Voltage	24 V-	
Diode current	1 A	
Current of through-busbar	10 A	
Operating temperature range		
Diode	1 N 4007	
Resistance	1.5 kΩ	
Capacitor	-	
Ordering data		
Type	DK 4 D/32	
Cat. No.	0159160000	
Type	DK 4 D/35	
Cat. No.	0181560000	
Type	WDK 2.5 D	
Cat. No.	8012260000	
Accessories DK 4 ¹⁾		
Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	-
AP PA	0359260000	20
TSch 4	0363360000	100
StB 8.5	0215700000	50
PS	0180400000	20
Q 2	0336400000	50
Q 3	0336500000	50
Q 4	0336600000	50
Q 10	0368600000	20
VL 2	0446700000	50
VH 10	0446600000	100
BS M 2.5x14	0266800000	100
AD 4 (4 term.)	0303400000	50
BSKM 2.5x18	0303300000	100
QB 2 ²⁾	0482700000	100
QB 3 ²⁾	0482800000	50
QB 4 ²⁾	0482900000	50
QB 75 bare	0526400000	10
Insul. profile	0526700000	-

¹⁾ Accessories for WDK 2.5 see sectional catalogue: Terminals

²⁾ When using QB conductor connection, max. 2.5 mm²

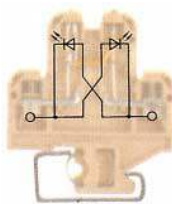
Terminal Blocks

With diodes



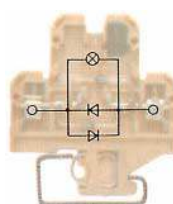
DK 4 LD I

Current direction indicator



DK 4 GL I

Current indicator



AKZ 4 LD

DC voltage indicator



AKZ 4 LD

DC voltage indicator



Dimensions

Length	mm	50
Height (incl. TS 32/TS 35x7.5)	mm	56.5
Terminal width (+ assembly tolerance 0.2)	mm	6
Insulation stripping length	mm	9

Connection data

Screw connection, solid core	0.5...4 mm ²
Screw connection, flexible	0.5...4 mm ²
Solder connection	-
Conductor cross-section	AWG 22...12

VDE rated data

Current of through-busbar	20 mA
Cross-section	4 mm ²
Permissible current range	2...20 mA
LED current	-

Voltage other versions on request

	3...250 V~
--	------------

Indicator other versions on request

	LED
--	-----

Ordering data

Type	
Cat. No.	for TS 32

Type	
Cat. No.	for TS 35

Type	
Cat. No.	for TS 35

Accessories

Mounting rail (2 m lengths)	TS 15
	TS 32
	TS 35

End bracket (thickness mm)	for TS 32 EWK 1 (8.5)	EWK 1	0206160000	50
	for TS 35 EW 35 (8.5)	EW 35	0383560000	50

End plate (thickness mm)	AP PA (1.5)	AP PA	0359260000	20
--------------------------	--------------------	--------------	-------------------	----

Small partition	TSch 4	TSch 4	0363360000	100
-----------------	---------------	---------------	-------------------	-----

Socket contact for test plug				
------------------------------	--	--	--	--

Test plug (pin diameter ø 2.3 mm)				
-----------------------------------	--	--	--	--

Cross-connector (pre-assembled)	2-pole			
	3-pole			
	4-pole			
	10-pole			

Switchable cross-connecting link				
----------------------------------	--	--	--	--

Connection sleeve				
-------------------	--	--	--	--

Fixing screw				
--------------	--	--	--	--

Cross-connecting bridge				
-------------------------	--	--	--	--

		QB 2*)	0482700000	100
		QB 3*)	0482800000	50
		QB 4*)	0482900000	50
		QB 75 bare	0526400000	10
		Insul. profile	0526700000	-

Dimensions

Length	mm	50
Height (incl. TS 32/TS 35x7.5)	mm	56.5
Terminal width (+ assembly tolerance 0.2)	mm	6
Insulation stripping length	mm	9

Screw connection, solid core	0.5...4 mm ²
Screw connection, flexible	0.5...4 mm ²
Solder connection	-
Conductor cross-section	AWG 22...12

Current of through-busbar	20 mA
Cross-section	4 mm ²
Permissible current range	2...20 mA
LED current	-

Voltage other versions on request	3...250 V~
--	------------

Indicator other versions on request	LED
	red and green

Type	
Cat. No.	DK 4 LD I/32 1164760000

Type	
Cat. No.	DK 4 LD I/35 1164860000

Type	
Cat. No.	DK 4 LD I/35 1111160000

Accessories

Mounting rail (2 m lengths)	TS 15
	TS 32
	TS 35

End bracket (thickness mm)	for TS 32 EWK 1 (8.5)	EWK 1	0206160000	50
	for TS 35 EW 35 (8.5)	EW 35	0383560000	50

End plate (thickness mm)	AP PA (1.5)	AP PA	0359260000	20
--------------------------	--------------------	--------------	-------------------	----

Small partition	TSch 4	TSch 4	0363360000	100
-----------------	---------------	---------------	-------------------	-----

Socket contact for test plug				
------------------------------	--	--	--	--

Test plug (pin diameter ø 2.3 mm)				
-----------------------------------	--	--	--	--

Cross-connector (pre-assembled)	2-pole			
	3-pole			
	4-pole			
	10-pole			

Switchable cross-connecting link				
----------------------------------	--	--	--	--

Connection sleeve				
-------------------	--	--	--	--

Fixing screw				
--------------	--	--	--	--

Cross-connecting bridge				
-------------------------	--	--	--	--

		QB 2*)	0482700000	100
		QB 3*)	0482800000	50
		QB 4*)	0482900000	50
		QB 75 bare	0526400000	10
		Insul. profile	0526700000	-

Dimensions

Length	mm	35.5
Height (incl. TS 32/TS 35x7.5)	mm	30
Terminal width (+ assembly tolerance 0.2)	mm	6
Insulation stripping length	mm	9

Screw connection, solid core	0.5...4 mm ²
Screw connection, flexible	0.5...4 mm ²
Solder connection	up to 1.5 mm ²
Conductor cross-section	AWG 22...12/solder...16

Current of through-busbar	10 A
Cross-section	4 mm ² /1.5 mm ²
Permissible current range	< 5 mA
LED current	< 5 mA

Voltage other versions on request	24 V~
--	-------

Indicator other versions on request	LED
	green

Type	
Cat. No.	AKZ 4 LD 0639460000

Type	
Cat. No.	AKZ 4 LD 0639560000

Type	
Cat. No.	AKZ 4 LD 0639360000

Accessories

Mounting rail (2 m lengths)	TS 15
	TS 32
	TS 35

End bracket (thickness mm)	for TS 32 EWK 1 (8.5)	EWK 1	0206160000	50
	for TS 35 EW 35 (8.5)	EW 35	0383560000	50

End plate (thickness mm)	AP PA (1.5)	AP PA	0359260000	20
--------------------------	--------------------	--------------	-------------------	----

Small partition	TSch 4	TSch 4	0363360000	100
-----------------	---------------	---------------	-------------------	-----

Socket contact for test plug				
------------------------------	--	--	--	--

Test plug (pin diameter ø 2.3 mm)				
-----------------------------------	--	--	--	--

Cross-connector (pre-assembled)	2-pole			
	3-pole			
	4-pole			
	10-pole			

Switchable cross-connecting link				
----------------------------------	--	--	--	--

Connection sleeve				
-------------------	--	--	--	--

Fixing screw				
--------------	--	--	--	--

Cross-connecting bridge				
-------------------------	--	--	--	--

		QB 2*)	0482700000	100
		QB 3*)	0482800000	50
		QB 4*)	0482900000	50
		QB 75 bare	0526400000	10
		Insul. profile	0526700000	-

* When using QB conductor connection, max. 2.5 mm²

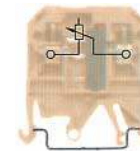
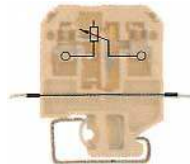
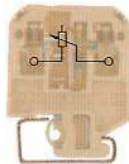
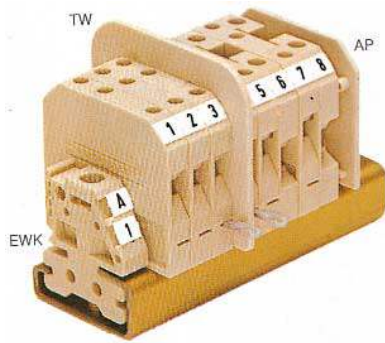
Compensating Terminals

SAKL 4/ ...

SAKL 4/ ... L

SAKL 4/ ... R

SAKL 4/ ... EN



Dimensions

Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm

Connection data

Screw connection, solid core	0.5...4 mm ²
Screw connection, flexible	0.5...4 mm ²

Conductor cross-section

AWG 22...12

VDE rated data

Power	1 W
Cross-section	4 mm ²

Approvals

Ordering data

Resistance	Value
	10 Ω
	30 Ω
	50 Ω
	100 Ω
	500 Ω
	1 kΩ
	5 kΩ
	10 kΩ
	100 kΩ
	500 kΩ
	2 MΩ

Accessories

Mounting rail (2 m lengths)	
End bracket (thickness mm)	for TS 32 EWK 1 (8.5) for TS 35 EW 35 (8.5)
End plate (thickness mm)	AP PA (1.5)
End plate (thickness mm)	
Partition (thickness mm)	
Shielding rail	
Solder lug	

Technical data for the 30 Ω compensating resistor

Resistor material:	"Cermet"
Resistor setting range:	0...30 Ω
Wave form:	linear
Temperature coefficient:	± 100 ppm/°C
Mechanical lifespan:	200 operations without permissible deviations through the entire resistance range
Resistance change per spindle turn:	≈ 1.2 Ω
Rated output for total resistance:	1 Watt at 70 °C
Rated current:	120 mA
Ambient temperature:	-55 °C bis +70 °C
Sealing:	1) Leak tested in water at 70 °C without bubble formation 2) Storage in SFW 2.0 S i.a.w. DIN 50018, 9 cycles

Dimensions

Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm

Connection data

Screw connection, solid core	0.5...4 mm ²
Screw connection, flexible	0.5...4 mm ²

Conductor cross-section

AWG 22...12

VDE rated data

Power	1 W
Cross-section	4 mm ²

Approvals

Ordering data

Type	Cat. No.	Qty.
SAKL 4/10 PA	0649160000	10
SAKL 4/30 PA	0524060000	10
SAKL 4/50 PA	0649060000	10
SAKL 4/100 PA	0643260000	10
SAKL 4/500 PA	0643860000	10
SAKL 4/1 k PA	0648960000	10
SAKL 4/5 k PA	0648860000	10
SAKL 4/10 k PA	0632260000	10
SAKL 4/50 k PA	0647860000	10
SAKL 4/100 k PA	0649260000	10
SAKL 4/500 k PA	0649560000	10
SAKL 4/32 (without potentiometer)	0643760000	10

Accessories

TS 32	0122800000	-
EWK 1 (8.5)	0206160000	50
AP PA (1.5)	0117960000	20
TW PA (1.5)	0130160000	20

Dimensions

Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm

Connection data

Screw connection, solid core	0.5...4 mm ² /solder 1.5 mm ²
Screw connection, flexible	0.5...4 mm ² /solder 1.5 mm ²

Conductor cross-section

AWG 22...12

VDE rated data

Power	1 W
Cross-section	4 mm ²

Approvals

Ordering data

Type	Cat. No.	Qty.
SAKL 4/30 LPA	0572860000	10
SAKL 4/30 R PA	0526260000	5
SAKL 4/100 R PA	0643160000	10
TS 32	0122800000	-
EWK 1 (8.5)	0206160000	50
AP PA (1.5)	0117960000	20
TW PA (1.5)	0130160000	20
LÖFA SAKL 2.5 L	2026140000	100

Dimensions

Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm

Connection data

Screw connection, solid core	0.5...4 mm ²
Screw connection, flexible	0.5...4 mm ²

Conductor cross-section

AWG 22...12

VDE rated data

Power	1 W
Cross-section	4 mm ²

Approvals

Ordering data

Type	Cat. No.	Qty.
SAKL 4/10 EN	1108360000	10
SAKL 4/30 EN	1108460000	10
SAKL 4/50 EN	1108560000	10
SAKL 4/100 EN	1108660000	10
SAKL 4/500 EN	1108860000	10
SAKL 4/1 k EN	1108960000	10
SAKL 4/5 k EN	1109160000	10
SAKL 4/10 k EN	1109260000	10
SAKL 4/50 k EN	1109560000	10
SAKL 4/100 k EN	1109660000	10
SAKL 4/500 k EN	1109960000	10
SAKL 4/2 M EN	1110160000	10
SAKL 4 EN (without potentiometer)	1305160000	-
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1 (8.5)	0206160000	50
EW 35 (8.5)	0383560000	50
AP PA (1.5)	0117960000	20
TW PA (1.5)	0130160000	20

Dimensions

Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm

Connection data

Screw connection, solid core	0.5...4 mm ²
Screw connection, flexible	0.5...4 mm ²

Conductor cross-section

AWG 22...12

VDE rated data

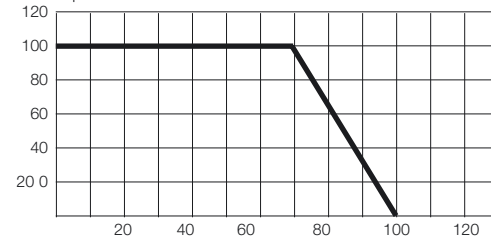
Power	1 W
Cross-section	4 mm ²

Approvals

Ordering data

Type	Cat. No.	Qty.
SAKL 4/10 EN	1108360000	10
SAKL 4/30 EN	1108460000	10
SAKL 4/50 EN	1108560000	10
SAKL 4/100 EN	1108660000	10
SAKL 4/500 EN	1108860000	10
SAKL 4/1 k EN	1108960000	10
SAKL 4/5 k EN	1109160000	10
SAKL 4/10 k EN	1109260000	10
SAKL 4/50 k EN	1109560000	10
SAKL 4/100 k EN	1109660000	10
SAKL 4/500 k EN	1109960000	10
SAKL 4/2 M EN	1110160000	10
SAKL 4 EN (without potentiometer)	1305160000	-
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1 (8.5)	0206160000	50
EW 35 (8.5)	0383560000	50
AP PA (1.5)	0117960000	20
TW PA (1.5)	0130160000	20

Capacity expressed in % of rated output

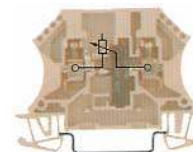
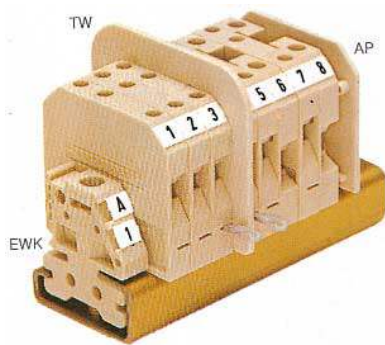


Ambient temperature in °C

Compensating Terminals

SAKL 4/EN T

WDUL 4/...



Dimensions

Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm

Connection data

Screw connection, solid core	0.5...4 mm ²
Screw connection, flexible	0.5...4 mm ²

Conductor cross-section

VDE rated data

Power	1 W
Cross-section	4 mm ²

Approvals

Ordering data

Resistance	10 Ω
	30 Ω
	50 Ω
	100 Ω
	500 Ω
	1 kΩ
	5 kΩ
	10 kΩ
	100 kΩ
	500 kΩ
	2 MΩ

Accessories

Mounting rail (2 m lengths)	
End bracket (thickness mm)	for TS 32 EWK 1 (8.5)
	for TS 35 EW 35 (8.5)
End plate (thickness mm)	AP PA (1.5)
End plate (thickness mm)	
Partition (thickness mm)	
Shielding rail	
Solder lug	

Technical data for the 30 Ω compensating resistor

Resistor material:	"Cermet"
Resistor setting range:	0...30 Ω
Wave form:	linear
Temperature coefficient:	± 100 ppm/°C
Mechanical lifespan:	200 operations without permissible deviations through the entire resistance range
Resistance change per spindle turn:	≈ 1.2 Ω
Rated output for total resistance:	1 Watt at 70 °C
Rated current:	120 mA
Ambient temperature:	-55 °C bis +70 °C
Sealing:	1) Leak tested in water at 70 °C without bubble formation 2) Storage in SFW 2.0 S i.a.w. DIN 50018, 9 cycles

Dimensions

Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm

Connection data

Screw connection, solid core	0.5...4 mm ²
Screw connection, flexible	0.5...4 mm ²

Conductor cross-section

VDE rated data

Power	1 W
Cross-section	4 mm ²

Approvals

Ordering data

Type	Cat. No.	Qty.
SAKL 4/10 EN T	1166360000	5
SAKL 4/100 EN T	1166460000	5
SAKL 4/1 k EN T	1166560000	5
SAKL 4/10 k EN T	1166660000	5
SAKL 4/100 EN T	1166760000	5

Accessories

TS 32	0122800000	-
TS 35	0383400000	-
EWK 1 (8.5)	0206160000	50
EW 35 (8.5)	0383560000	50
AP PA (1.5)	0117960000	20
TW PA (1.5)	0130160000	20

Dimensions

Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm

Connection data

Screw connection, solid core	0.5...4 mm ²
Screw connection, flexible	0.5...4 mm ²

Conductor cross-section

VDE rated data

Power	1 W
Cross-section	4 mm ²

Approvals

Ordering data

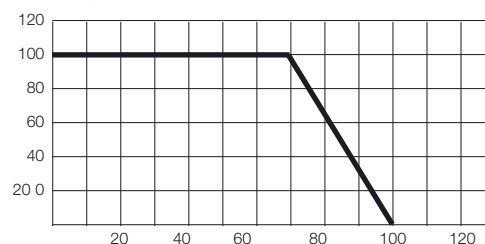
Type	Cat. No.	Qty.
WDUL 4/10	1027000000	10
WDUL 4/30	1027100000	10
WDUL 4/50	1027200000	10
WDUL 4/100	1027300000	10
WDUL 4/500	1027400000	10
WDUL 4/1K	1027500000	10
WDUL 4/5K	1027600000	10
WDUL 4/10K	1027700000	10
WDUL 4/50K	1027800000	10
WDUL 4/100K	1027900000	10
WDUL 4/500K	1028000000	10
WDUL 4/2M	1028100000	10
WDUL 4	8161820000	10

(without potentiometer)

Accessories

TS 35	0383400000	-
EW 35 (8.5)	0383560000	50
WAP 2.5-10	1050000000	50
TW PA (1.5)	1050100000	20
LS 2.8	1056400000	100

Capacity expressed in % of rated nominal power



Ambient temperature in °C

Diode Plug



DLS 2

for SAKR-D



DLS 2

for SAKR-D



WSD 2.5

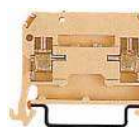


WTR 2.5 D

SAKR-D

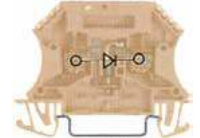


SAKR-D



WTR 2.5 D

with diode plug
with test sockets



Dimensions

Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm

Connection data

Screw connection, solid	0.5...4 mm ²
Screw connection, flexible	0.5...4 mm ²
Conductor cross-section	AWG 22...12

VDE rated data

Diode current	1 A
Diode reverse voltage	1000 V
Cross-section	4 mm ²

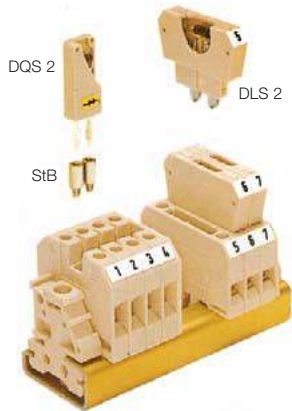
Ordering data

DLS 2 = Diode plug
for lateral disconnection
DQS 2 = Diode plug
for cross-connection

Type	Cat. No.	Qty.	Type	Cat. No.	Qty.	Type	Cat. No.	Qty.	Type	Cat. No.	Qty.
DLS 2	0321060000		DLS 2	0321060000		WSD 2.5	1058760000		WTR 2.5 D	8017050000	
without components	50		without components	50		without components	-				100
DLS 2	0547660000		DLS 2	0547660000		WSD 2.5	1058660000		with diode 1 N 4007		
with wire link	50		with wire link	50		with wire link	-		WTR 2.5 D	8016820000	
DLS 2	0630160000		DLS 2	0630160000		WSD 2.5	1058560000				100
with diode	50		with diode	10		with diode	1 N 4007				
1 N 4007			1 N 4007			WSD 2.5	1058460000		with diode 1 N 4007		
DLS 2	0547760000		DLS 2	0547760000		with diode	1 N 4007		WTR 2.5 D	on request	
with diode	50		with diode	50		WSD 2.5	1058460000				100
1 N 4007			1 N 4007			WTR 2.5 D	1013500000		with 2 antiparallel		
SAKR-D, TS 32	0263660000		SAKR-D, TS 35	0299560000		with WSD 2.5	105856				
with DLS 2			with DLS 2			WTR 2.5 D	1013600000		diodes 1 N 4007		
054776			054776			with WSD 2.5	105846		WTR 2.5 D	1014600000	
SAKR-D, TS 32	0413060000		SAKR-D, TS 35	0185760000		WTR 2.5 D	1013700000				25
with DLS 2	50		without components			with WSD 2.5	105866		with test sockets and		
without components			without components			105846			Diode 1 N 4007		
SAKR-D, TS 32	0413160000		SAKR-D, TS 35	1175360000		WTR 2.5 D	1013200000		WTR 2.5 D	1014700000	
with test sockets	50		with test sockets	-		with test sockets	-				25
and DLS 2 without components			and DLS 2 without components			and WSD 2.5	105866		with test sockets and		
Special design			Special design			WTR 2.5 D	1013200000		Diode 1 N 4007		
SAKR-D, TS 32	0606560000		SAKR-D, TS 35	1175460000		with test sockets	105856		WTR 2.5 D	1014800000	
with test socket	25		with test socket	-		and WSD 2.5	105866				25
and 2 antiparallel diodes			and 2 antiparallel diodes			WTR 2.5 D	1013300000		with test sockets and		
1 N 4007, without DLS 2			1 N 4007, without DLS 2			with test sockets	105846		Diode 1 N 4007		
SAKR-D, TS 32	0412960000		SAKR-D, TS 35	0299960000		and WSD 2.5			WTR 2.5 D	1014800000	
without components	100			25		with test sockets	105846				25
SAKR-D, TS 32	0546460000					and WSD 2.5	105866		with test sockets and		
with test sockets	100					WTR 2.5 D	1013400000		2 antiparallel diodes		
						with test sockets	105846		1 N 4007		
						and WSD 2.5					
						105866					

Maximum values for built-in components: Length 23 mm, diameter 3.5 mm, output 0.5 Watt, limit temperature 100 °C

Diode Plug



DQS 2

for terminals with 6 mm width



Dimensions

Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm

Connection data

Screw connection, solid	
Screw connection, flexible	
Conductor cross-section	

VDE rated data

Diode current	
Diode reverse voltage	
Cross-section	

Ordering data

DLS 2 = Diode plug
for lateral disconnection

DQS 2 = Diode plug
for cross-connection

DQS 2		
1 A		-
1000 V		24 V
-		-
Type	Cat. No.	Qty.
DQS 2	0471460000	
with diode		20
1 N 4007		
DQS 2	0471560000	
with wire bridge		20
DQS 2	0471660000	
without components		20

Note:

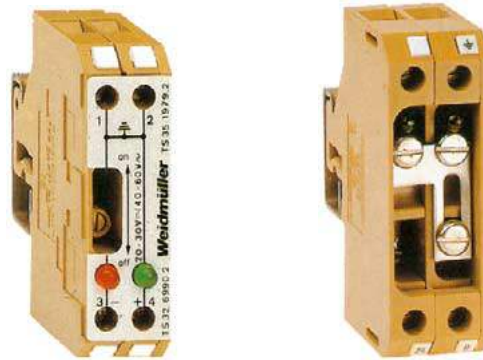
To maintain the clearance and creepage distances, an end plate must be mounted between the groups of different potentials!

Maximum values for built-in components:

- Length 10 mm
- Diameter 4 mm
- Power 0.5 Watt
- Limit temperature 100 °C

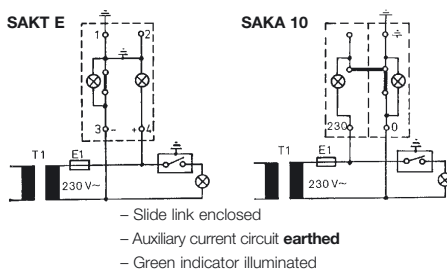
Earth Test/Disconnect Terminals

SAKT E/SAKA 10



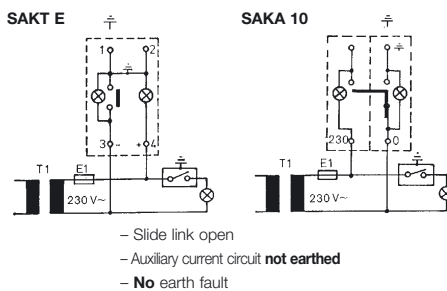
Mode of operation

Operating status



Test mode

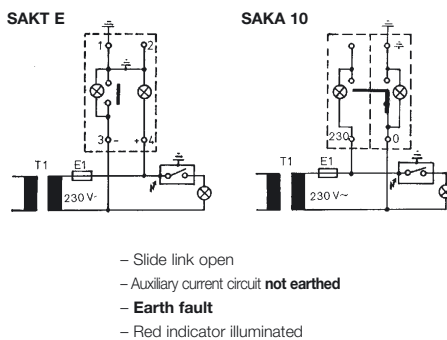
For insulation measurements with voltages $>U_{rated}$, earth must be disconnected.



- Green and red indicators light up with reduced intensity
 - No indication

For insulation measurements with voltages $>U_{rated}$, earth must be disconnected.

Operating status



Dimensions

Length mm 19/27
 Height (incl. TS 32/TS 35x7.5)mm 55/82

Insulation stripping length mm 12

Connection data

Screw connection, solid 0.5...10 mm²/16 mm²
 Screw connection, flexible 0.5...6 mm²/10 mm²
 Conductor cross-section AWG 20...8

VDE rated data

Wechselspannung 20...30 V~
 Gleichspannung 10...15 V~
 Current 27 A
 Cross-section 6 mm²

Ordering data

Type SAKT E KrG
 Cat. No. (6 mm²) for TS 32 Type SAKT E/35 KrG
 Cat. No. (6 mm²) for TS 35 Type SAKA 10
 Cat. No. (10 mm²) for TS 32 Type SAKA 10
 Cat. No. (10 mm²) for TS 32 Y/TS 35

Accessories

Mounting rail (2 m lengths) TS 32 **0122800000**
 TS 35 **0383400000**

End bracket (Thickn. 8.5 mm) for TS 32 **EWK 1 0206160000**
 for TS 35 **EW 35 0383560000**

SAKT E/SAKA 10

Length mm 19/27
 Height (incl. TS 32/TS 35x7.5)mm 55/82

Insulation stripping length mm 12

Connection data

Screw connection, solid 0.5...10 mm²/16 mm²
 Screw connection, flexible 0.5...6 mm²/10 mm²
 Conductor cross-section AWG 20...8

VDE rated data

Wechselspannung	20...30 V~	40...60 V~	80...120 V~	115 V~	230 V~
Gleichspannung	10...15 V~	20...30 V~	40...60 V~	115 V~	230 V~
Current	27 A	27 A/47 A	27 A	27 A/47 A	27 A/47 A
Cross-section	6 mm ²	6/10 mm ²	6 mm ²	6/10 mm ²	6/10 mm ²

Ordering data

Type	SAKT E KrG	SAKT E KrG	SAKT E KrG	SAKT E KrG	SAKT E KrG
Cat. No. (6 mm ²) for TS 32	1158720000	0699020000	0699220000	0698920000	0606820000
Type SAKT E/35 KrG	SAKT E/35 KrG	SAKT E/35 KrG	SAKT E/35 KrG	SAKT E/35 KrG	SAKT E/35 KrG
Cat. No. (6 mm ²) for TS 35	1166820000	0197920000	0198220000	0198020000	0198120000
Type SAKA 10					SAKA 10
Cat. No. (10 mm ²) for TS 32					(only 230 V~) 1175020000
Type SAKA 10					SAKA 10
Cat. No. (10 mm ²) for TS 32 Y/TS 35					(115 V~) (230 V~) 8150150000 1128820000 8109130000

Earthing auxiliary circuits

Earth faults in control current circuits must not lead to unintentional start-up or dangerous movements of a machine, or prevent its shut-down. In order to fulfill this requirement, one side of the control current circuits should be connected to the protective conductor system, with the coils and switching elements mounted accordingly.

An insulation monitoring device must be planned for control current circuits that are supplied by a transformer but not connected to the protective conductor system. The device should report an earth fault or automatically disconnect the circuit following an earth fault. (VDE 01136.2.2)

Our earth test/disconnect terminals have been specially designed for use in control circuits. They have been designed to guarantee both a reliable and safe disconnection of the earth connection as well as to indicate the exact operating status. This terminal differentiates between the following modes of operation:

1. Operating mode

In the operating mode, the control circuit is securely connected to earth via the closed slide link. A possible earth fault can be detected with the help of a fuse or an r.c.c.b., because in the event of a fault the leakage current can be discharged to earth.

2. Test mode

In this mode, it is possible to check the isolation status of the installation. The earth connection must be disconnected for insulation measurements with voltages greater than the rated voltage of the earth conductor disconnect unit.

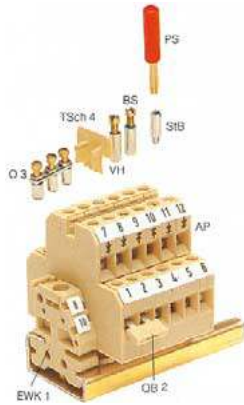
3. Fault mode

If an earth fault occurs during operation in an earthed control circuit, our earth conductor disconnect unit makes it possible to switch to a non-earthed control circuit. This bridges the time required to correct the fault, i.e. the machine can continue to operate.

Terminal Blocks

with electronic components

(other versions on request)



Dimensions DK 4/WDK 2.5	
Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm

Connection data	
Screw connection, flexible	DK 4
Screw connection, flexible	WDK 2.5
Conductor cross-section	DK 4
Conductor cross-section	WDK 2.5

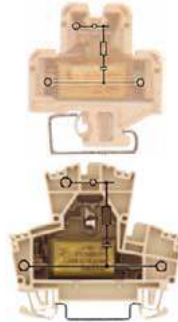
VDE rated data	
Voltage	
Diode current	
Current of through-busbar	
Operating temperature range	
Diode	
Resistance	
Capacitor	

Ordering data	
Type	
Cat. No.	for TS 32
Type	
Cat. No.	for TS 35
Type	
Cat. No.	for TS 35

Accessories DK 4 ¹⁾	
Mounting rail (2 m lengths)	TS 32 TS 35
End bracket (thickness mm)	for TS 32 EWK 1 (8.5) for TS 35 EW 35 (8.5)
End plate (thickness mm)	AP PA (1.5)
Small partition	TSch 4
Partition (thickness mm)	
Socket for test plug	
Test plug (pin diameter ø 2.3 mm)	
Contact sleeve	
Cross-connector (preassembled)	2-pole 3-pole 4-pole 10-pole
Switchable cross-connection bracket	
Connection sleeve	
Fixing screw	
Cover plate	
Fixing screw (plastic)	
Cross-connection bracket	

DK 4 RC WDK 2.5 RC

Arc suppression circuit for contactors and solenoid valves (AC), protection module for opto-coupler inputs



Length	50
Height (incl. TS 32/TS 35x7.5)	56.5
Terminal width (+ assembly tolerance 0.2)	18
Insulation stripping length	9

Screw connection, flexible	0.5...4 mm ²
Screw connection, flexible	-
Conductor cross-section	AWG 22...12
Conductor cross-section	-

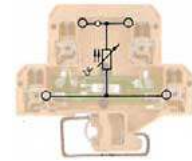
Voltage	230 V~/400 V-
Diode current	-
Current of through-busbar	10 A
Operating temperature range	-
Diode	-
Resistance	220 Ω
Capacitor	0.22 μF

Type	DK 4 RC/32
Cat. No.	0692160000
Type	DK 4 RC/35
Cat. No.	0053160000
Type	WDK 2.5 RC
Cat. No.	8065910000

Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	-
AP PA	0359260000	20
TSch 4	0363360000	100
StB 8.5	0215700000	50
PS	0180400000	20
Q 4	0336600000	50
Q 10	0368600000	20
QB 4 ¹⁾	0482900000	50
QB 75 bare	0526400000	10
Insul. profile	0526700000	-

DK 4 PT 100

PT 100 temperature sensor



Length	65
Height (incl. TS 32/TS 35x7.5)	56.5
Terminal width (+ assembly tolerance 0.2)	
Insulation stripping length	6

Screw connection, flexible	0.5...4 mm ²
Screw connection, flexible	0.5...2.5 mm ²
Conductor cross-section	AWG 22...12
Conductor cross-section	-

Voltage	
Diode current	
Current of through-busbar	
Operating temperature range	
Diode	-50...+100 °C
Resistance	
Capacitor	

Type	DK 4 PT 100
Cat. No.	8014730000
Type	DK 4 PT 100
Cat. No.	8014720000

Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 2 (15)	0199360000	50
EW 35	0383560000	50
AP	0687560000	20
TWHP (2)	0607000000	20
PS	0180400000	20
ASK 1	0553300000	100
QB 2 ¹⁾	0482700000	100
QB 3 ¹⁾	0482800000	50
QB 4 ¹⁾	0482900000	50
QB 75 bare	0526400000	10
Insul. profile	0526700000	-

¹⁾ Accessories for WDK 2.5, see catalogue terminal blocks