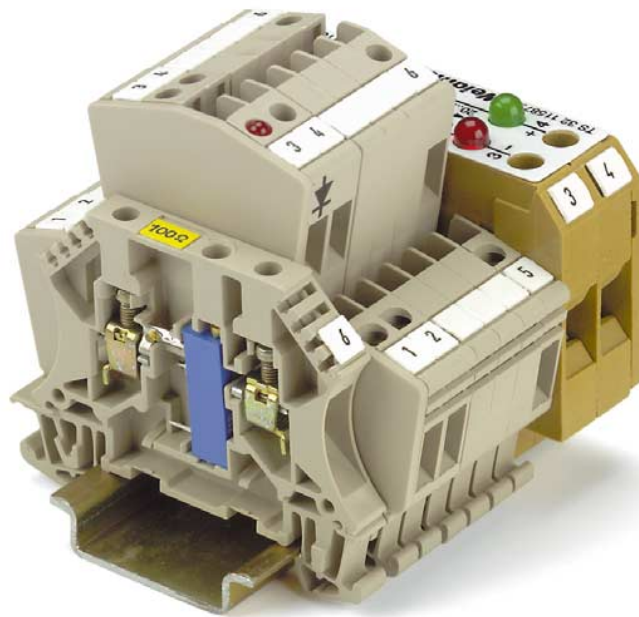


Terminal Blocks With Electronic Components



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

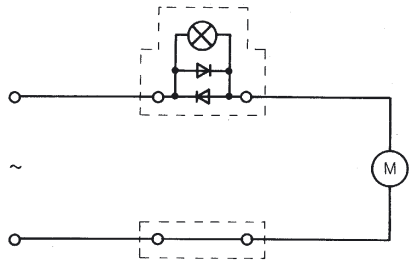
Terminal blocks with LED indicators

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

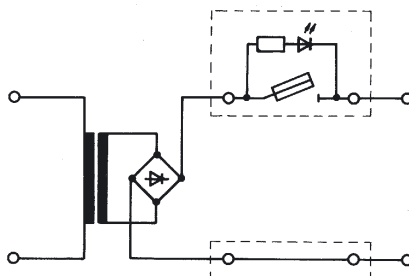
The indicated flow of current allows the operating status of the ventilator to be monitored.



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.

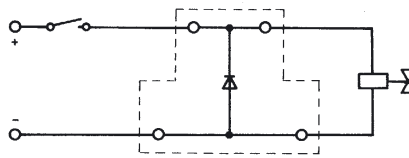
Terminal blocks with diodes

for suppressing inductivity or linking signals.

Application example:

• Spark suppression when DC valve is switched

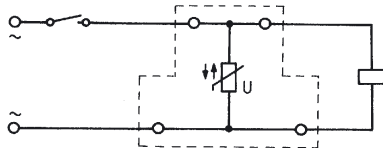
The electromagnetic energy stored in the coil fades through the diode on opening the contact.



Application example:

• Protects contacts when an inductive AC load is switched

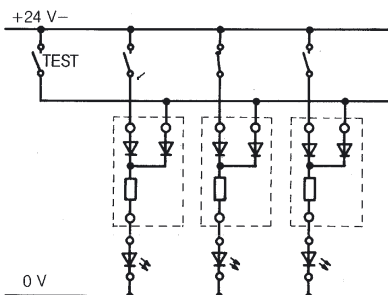
A varistor limits the peak voltage when load is switched off. This prevents arcing and related burning of the contacts.



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.

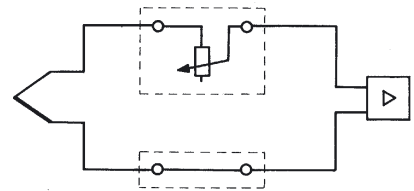


Compensating Terminals

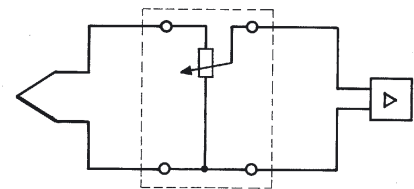
Different cable lengths and tolerances for the sensors in measurement, control and regulation technology require compensation of the circuits. A combination of a rail-mounted terminal and potentiometer is the solution: Type SAKL 4.

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:

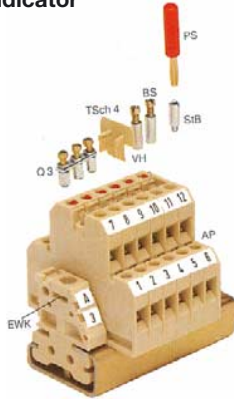
Rated insulation voltage

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

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

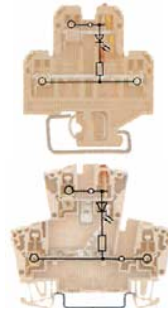
Terminal Blocks

With indicator



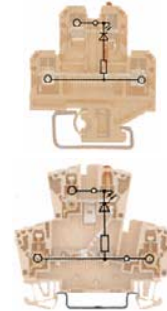
DK 4 LD WDK 2.5 LD

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)	

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	StB 8.5
Test plug (pin diameter ø 2.3 mm)	PS
Cross-connector (pre-assembled)	2-pole
	3-pole
	4-pole
	10-pole
Switchable cross-connecting link	VL 2
Connection sleeve	VH 10
Fixing screw	BS M 2.5x14
Cross-connecting bridge	QB 2¹⁾
	QB 3¹⁾
	QB 4¹⁾
	QB 75 bare
	Insulating profile

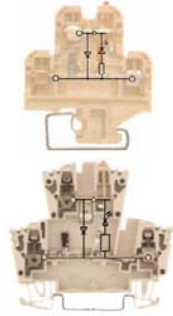
Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	50
AP PA	0359260000	20
TSch4	0363360000	100
StB 8.5	0215700000	50
PS	0180400000	20
Q 2	0336400000	50
Q 3	0336500000	50
Q 4	0336600000	50
Q 10	0368600000	20
VL 2	0446700000	50
VH 10	0446600000	100
BS M 2.5x14	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

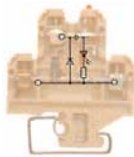
DK 4 LD/35	DK 4 LD/35
0210260000	0210460000

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

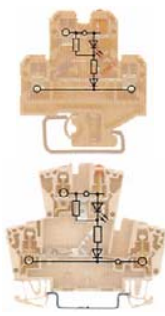
DK 4 LD/32	DK 4 LD/32
0209760000	0209960000

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

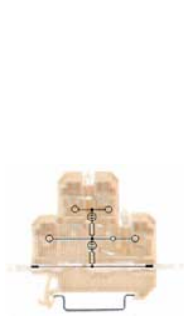
DK 4 GL/35	DK 4 GL/35
0396260000	0663160000

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
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 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

DK 4 Q GL/35
1120260000

WDK 2.5 GL
8013840000

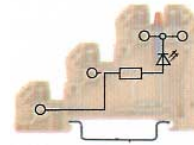
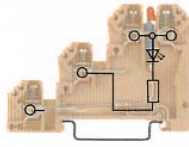
Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	50
AP PA	0359260000	20
TSch 4	0363360000	100
StB 8.5	0215700000	50
PS	0180400000	20
Q 2	0336400000	50
Q 3	0336500000	50
Q 4	0336600000	50
Q 10	0368600000	20
VL 2	0446700000	50
VH 10	0446600000	100
BS M 2.5x14	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	-

Terminal Blocks

With indicator

DLI 2.5 LD/35 PNP


DLI 2.5 LD/35 NPN



Dimensions	
Length	mm 65
Height (incl. TS 32/TS 35x7.5)	mm -/49
Terminal width (+ assembly tolerance 0.2)	mm 6
Insulation stripping length	mm 7
Connection data	
Screw connection, solid core	0.5...2.5 mm ²
Screw connection, flexible	0.5...2.5 mm ²
Conductor cross-section	AWG 22...14
VDE rated data	
Current of through-busbar	20 A
Cross-section	2.5 mm ²
Permissible current range	-
LED current	< 5 mA
Voltage other versions on request	5...30 V-

Type	Cat. No.
DLI 2.5 LD/35 PNP	
LED red	1578510000
LED green	1578520000
Block of 10 (with built-in cross-connections)	
LED red	1578530000
LED green	1578540000

Type	Cat. No.
DLI 2.5 LD/35 NPN	
LED red	1578550000
LED green	1578560000
Block of 10 (with built-in cross-connections)	
LED red	1578530000
LED green	1578540000

Ordering data	
for TS 35 	
LED red	1578510000
LED green	1578520000
Block of 10 (with built-in cross-connections)	
LED red	1578530000
LED green	1578540000

Type	Cat. No.	Qty.
TS 35	0383400000	-
EW 35 (8.5)	0383560000	50
AP PA	1313260000	20
Q 2	1312500000	50
Q 3	1312600000	50
Q 4	1312700000	50
Q 10	1313100000	20
VH 3.8	1345800000	100
QL 2	029720	100

Type	Cat. No.	Qty.
TS 35	0383400000	-
EW 35 (8.5)	0383560000	50
AP PA	1313260000	20
Q 2	1312500000	50
Q 3	1312600000	50
Q 4	1312700000	50
Q 10	1313100000	20
VH 3.8	1345800000	100
QL 2	0297200000	100

Accessories	
Mounting rail (2 m lengths)	
End bracket (thickness mm)	
for TS 35 EW 35 (8.5)	
End plate (thickness mm) AP PA (1.5)	
Cross-connector (pre-assembled)	
2-pole	Q 2 1312500000 50
3-pole	Q 3 1312600000 50
4-pole	Q 4 1312700000 50
10-pole	Q 10 1313100000 20
Connection sleeve	VH 3.8 1345800000 100
Cross-connection bracket	QL 2 029720 100

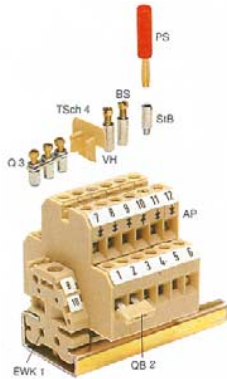
Type	Cat. No.	Qty.
TS 35	0383400000	-
EW 35 (8.5)	0383560000	50
AP PA	1313260000	20
Q 2	1312500000	50
Q 3	1312600000	50
Q 4	1312700000	50
Q 10	1313100000	20
VH 3.8	1345800000	100
QL 2	029720	100

Type	Cat. No.	Qty.
TS 35	0383400000	-
EW 35 (8.5)	0383560000	50
AP PA	1313260000	20
Q 2	1312500000	50
Q 3	1312600000	50
Q 4	1312700000	50
Q 10	1313100000	20
VH 3.8	1345800000	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



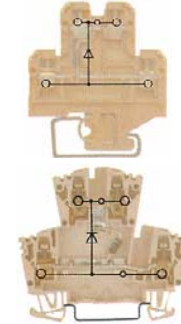
DK 4 D WDK 2.5 D

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

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
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
Voltage	380 V~
Diode reverse voltage	1000 V
Diode current	1 A
Current of through-basbar	10 A
Diode	1 N 4007

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
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
Voltage	380 V~
Diode reverse voltage	1000 V
Diode current	1 A
Current of through-basbar	10 A
Diode	1 N 4007

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
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
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

	beige
Type	DK 4 D/32
Cat. No.	0544660000
Type	DK 4 D/35
Cat. No.	0396360000
Type	WDK 2.5 D
Cat. No.	8025610000

	beige	blue
Type	DK 4 D/32	DK 4 D/32
Cat. No.	0484060000	0484080000
Type	DK 4 D/35	DK 4 D/35
Cat. No.	0538960000	0538980000
Type	WDK 2.5 D	WDK 2.5 D
Cat. No.	1023400000	1023400000

	beige	blue
Type	DK 4 D/32	DK 4 D/32
Cat. No.	0467960000	0467980000
Type	DK 4 D/35	DK 4 D/35
Cat. No.	0538860000	0538880000
Type	WDK 2.5 D	WDK 2.5 D
Cat. No.	1023300000	1023300000

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	

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	-

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
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	-

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
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	-

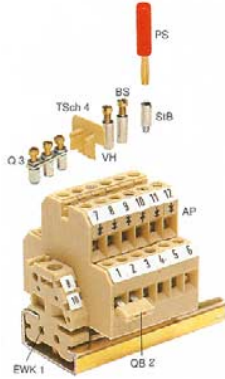
¹⁾ Accessories for WDK 2.5 see sectional catalogue: Terminals

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

Terminal Blocks

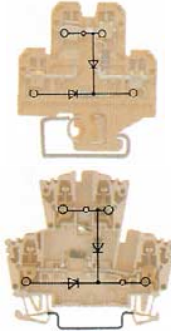
With diodes

(other versions on request)



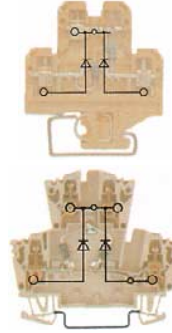
DK 4 D WDK 2.5 D

Diode terminals for lamp test circuits



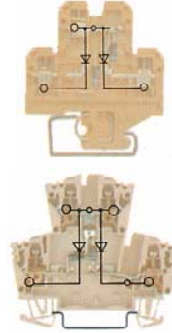
DK 4 D WDK 2.5 D

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
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 0642760000
Type	DK 4 D/35
Cat. No.	for TS 35 0396660000
Type	WDK 2.5 D
Cat. No.	for TS 35 1023500000

Accessories DK 41)	
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	StB 8.5
Test plug (pin diameter ø 2.3 mm)	PS
Cross-connector (pre-assembled)	2-pole Q 2
	3-pole Q 3
	4-pole Q 4
	10-pole Q 10
Switchable cross-connecting link	VL 2
Connection sleeve	VH 10
Fixing screw	BS M 2.5x14
Cover plate	AD 4 (4 term.)
Fixing screw (plastic)	BSKM 2.5x18
Cross-connecting bridge	QB 2 ²⁾
	QB 3 ²⁾
	QB 4 ²⁾
	QB 75 bare
	Insul. profile

Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm
Screw connection, flexible	DK 4
Screw connection, flexible	WDK 2.5
Conductor cross-section	DK 4
Conductor cross-section	WDK 2.5
Voltage	380 V~
Diode reverse voltage	1000 V
Diode current	1 A
Current of through-basbar	10 A
Diode	1 N 4007

beige	
Type	DK 4 D/32
Cat. No.	for TS 32 0642760000
Type	DK 4 D/35
Cat. No.	for TS 35 0396660000
Type	WDK 2.5 D
Cat. No.	for TS 35 1023500000

Type	TS 32	Cat. No.	0122800000	Qty.	-
Type	TS 35	Cat. No.	0383400000	Qty.	-
Type	EWK 1	Cat. No.	0206160000	Qty.	50
Type	EW 35	Cat. No.	0383560000	Qty.	-
Type	AP PA	Cat. No.	0359260000	Qty.	20
Type	WAP/DK 2.5	Cat. No.	1059100000	Qty.	20
Type	TSch 4	Cat. No.	0363360000	Qty.	100
Type	StB 8.5	Cat. No.	0215700000	Qty.	50
Type	PS	Cat. No.	0180400000	Qty.	20
Type	Q 2	Cat. No.	0336400000	Qty.	50
Type	Q 3	Cat. No.	0336500000	Qty.	50
Type	Q 4	Cat. No.	0336600000	Qty.	50
Type	Q 10	Cat. No.	0368600000	Qty.	20
Type	VL 2	Cat. No.	0446700000	Qty.	50
Type	VH 10	Cat. No.	0446600000	Qty.	100
Type	BS M 2.5x14	Cat. No.	0266800000	Qty.	100
Type	AD 4 (4 term.)	Cat. No.	0303400000	Qty.	50
Type	BSKM 2.5x18	Cat. No.	0303300000	Qty.	100
Type	QB 2 ²⁾	Cat. No.	0482700000	Qty.	100
Type	QB 3 ²⁾	Cat. No.	0482800000	Qty.	50
Type	QB 4 ²⁾	Cat. No.	0482900000	Qty.	50
Type	QB 75 bare	Cat. No.	0526400000	Qty.	10
Type	Insul. profile	Cat. No.	0526700000	Qty.	-

Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm
Screw connection, flexible	DK 4
Screw connection, flexible	WDK 2.5
Conductor cross-section	DK 4
Conductor cross-section	WDK 2.5
Voltage	380 V~
Diode reverse voltage	1000 V
Diode current	1 A
Current of through-basbar	10 A
Diode	1 N 4007

beige	
Type	DK 4 D/32
Cat. No.	for TS 32 0523760000
Type	DK 4 D/35
Cat. No.	for TS 35 0396860000
Type	WDK 2.5 D
Cat. No.	for TS 35 1022600000

Type	TS 32	Cat. No.	0122800000	Qty.	-
Type	TS 35	Cat. No.	0383400000	Qty.	-
Type	EWK 1	Cat. No.	0206160000	Qty.	50
Type	EW 35	Cat. No.	0383560000	Qty.	-
Type	AP PA	Cat. No.	0359260000	Qty.	20
Type	WAP/DK 2.5	Cat. No.	1059100000	Qty.	20
Type	TSch 4	Cat. No.	0363360000	Qty.	100
Type	StB 8.5	Cat. No.	0215700000	Qty.	50
Type	PS	Cat. No.	0180400000	Qty.	20
Type	Q 2	Cat. No.	0336400000	Qty.	50
Type	Q 3	Cat. No.	0336500000	Qty.	50
Type	Q 4	Cat. No.	0336600000	Qty.	50
Type	Q 10	Cat. No.	0368600000	Qty.	20
Type	VL 2	Cat. No.	0446700000	Qty.	50
Type	VH 10	Cat. No.	0446600000	Qty.	100
Type	BS M 2.5x14	Cat. No.	0266800000	Qty.	100
Type	AD 4 (4 term.)	Cat. No.	0303400000	Qty.	50
Type	BSKM 2.5x18	Cat. No.	0303300000	Qty.	100
Type	QB 2 ²⁾	Cat. No.	0482700000	Qty.	100
Type	QB 3 ²⁾	Cat. No.	0482800000	Qty.	50
Type	QB 4 ²⁾	Cat. No.	0482900000	Qty.	50
Type	QB 75 bare	Cat. No.	0526400000	Qty.	10
Type	Insul. profile	Cat. No.	0526700000	Qty.	-

Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm
Screw connection, flexible	DK 4
Screw connection, flexible	WDK 2.5
Conductor cross-section	DK 4
Conductor cross-section	WDK 2.5
Voltage	380 V~
Diode reverse voltage	1000 V
Diode current	1 A
Current of through-basbar	10 A
Diode	1 N 4007

beige	
Type	DK 4 D/32
Cat. No.	for TS 32 0663960000
Type	DK 4 D/35
Cat. No.	for TS 35 0396760000
Type	WDK 2.5 D
Cat. No.	for TS 35 8014670000

Type	TS 32	Cat. No.	0122800000	Qty.	-
Type	TS 35	Cat. No.	0383400000	Qty.	-
Type	EWK 1	Cat. No.	0206160000	Qty.	50
Type	EW 35	Cat. No.	0383560000	Qty.	-
Type	AP PA	Cat. No.	0359260000	Qty.	20
Type	WAP/DK 2.5	Cat. No.	1059100000	Qty.	20
Type	TSch 4	Cat. No.	0363360000	Qty.	100
Type	StB 8.5	Cat. No.	0215700000	Qty.	50
Type	PS	Cat. No.	0180400000	Qty.	20
Type	Q 2	Cat. No.	0336400000	Qty.	50
Type	Q 3	Cat. No.	0336500000	Qty.	50
Type	Q 4	Cat. No.	0336600000	Qty.	50
Type	Q 10	Cat. No.	0368600000	Qty.	20
Type	VL 2	Cat. No.	0446700000	Qty.	50
Type	VH 10	Cat. No.	0446600000	Qty.	100
Type	BS M 2.5x14	Cat. No.	0266800000	Qty.	100
Type	AD 4 (4 term.)	Cat. No.	0303400000	Qty.	50
Type	BSKM 2.5x18	Cat. No.	0303300000	Qty.	100
Type	QB 2 ²⁾	Cat. No.	0482700000	Qty.	100
Type	QB 3 ²⁾	Cat. No.	0482800000	Qty.	50
Type	QB 4 ²⁾	Cat. No.	0482900000	Qty.	50
Type	QB 75 bare	Cat. No.	0526400000	Qty.	10
Type	Insul. profile	Cat. No.	0526700000	Qty.	-

Length	mm
Height (incl. TS 32/TS 35x7.5)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm
Screw connection, flexible	DK 4
Screw connection, flexible	WDK 2.5
Conductor cross-section	DK 4
Conductor cross-section	WDK 2.5
Voltage	380 V~
Diode reverse voltage	1000 V
Diode current	1 A
Current of through-basbar	10 A
Diode	1 N 4007

beige	
Type	DK 4 D/32
Cat. No.	for TS 32 1161260000
Type	DK 4 D/35
Cat. No.	for TS 35 1159060000

Type	TS 32	Cat. No.	0122800000	Qty.	-
Type	TS 35	Cat. No.	0383400000	Qty.	-
Type	EWK 1	Cat. No.	0206160000	Qty.	50
Type	EW 35	Cat. No.	0383560000	Qty.	-
Type	AP PA	Cat. No.	0359260000	Qty.	20
Type	WAP/DK 2.5	Cat. No.	1059100000	Qty.	20
Type	TSch 4	Cat. No.	0363360000	Qty.	100
Type	StB 8.5	Cat. No.	0215700000	Qty.	50
Type	PS	Cat. No.	0180400000	Qty.	20
Type	Q 2	Cat. No.	0336400000	Qty.	50
Type	Q 3	Cat. No.	0336500000	Qty.	50
Type	Q 4	Cat. No.	0336600000	Qty.	50
Type	Q 10	Cat. No.	0368600000	Qty.	20
Type	VL 2	Cat. No.	0446700000	Qty.	50
Type	VH 10	Cat. No.	0446600000	Qty.	100
Type	BS M 2.5x14	Cat. No.	0266800000	Qty.	100
Type	AD 4 (4 term.)	Cat. No.	0303400000	Qty.	50
Type	BSKM 2.5x18	Cat. No.	0303300000	Qty.	100
Type	QB 2 ²⁾	Cat. No.	0482700000	Qty.	100
Type	QB 3 ²⁾	Cat. No.	0482800000	Qty.	50
Type	QB 4 ²⁾	Cat. No.	0482900000	Qty.	50
Type	QB 75 bare	Cat. No.	0526400000	Qty.	10
Type	Insul. profile	Cat. No.	0526700000	Qty.	-

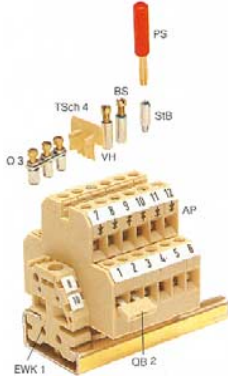
¹⁾ Accessories for WDK 2.5 see sectional catalogue: Terminals

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

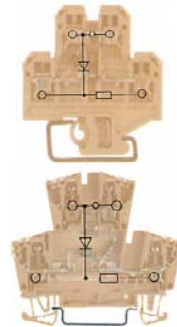
Terminal Blocks

With electronic components

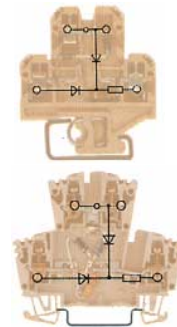
(other versions on request)

DK 4 D
WDK 2.5 D

Diode terminal for lamp test circuits, with series resistor

DK 4 D
WDK 2.5 D

Diode terminal for lamp test circuits, with series resistor



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	
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 (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	

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		
24 V-		
1 A		
10 A		
1 N 4007		
1.5 kΩ		
-		
DK 4 D/32		
0685260000		
DK 4 D/35		
0396960000		
WDK 2.5 D		
8016940000		
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	-

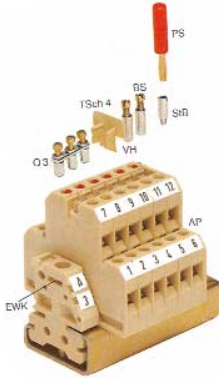
50/69		
56.5/63		
6/5		
9/10		
0.5...4 mm ²		
0.5...2.5 mm ²		
AWG 22...12		
AWG 26...12		
24 V-		
1 A		
10 A		
1 N 4007		
1.5 kΩ		
-		
DK 4 D/32		
0159160000		
DK 4 D/35		
0181560000		
WDK 2.5 D		
8012260000		
Type	Cat. No.	Qty.
TS 32	0122800000	-
TS 35	0383400000	-
EWK 1	0206160000	50
EW 35	0383560000	-
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

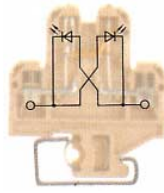
Terminal Blocks

With diodes



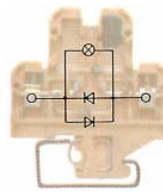
DK 4 LD I

Current direction indicator



DK 4 GL I

Current indicator



AKZ 4 LD

DC voltage indicator



AKZ 4 LD

DC voltage indicator



Dimensions	
Length	mm
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
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	red and green

Ordering data	
Type	DK 4 LD I/32
Cat. No.	1164760000
Type	DK 4 LD I/35
Cat. No.	1164860000
Type	DK 4 LD I/35
Cat. No.	1111160000

Accessories	
Mounting rail (2 m lengths)	TS 15 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	QB 2*) 0482700000 100 QB 3*) 0482800000 50 QB 4*) 0482900000 50 QB 75 bare 0526400000 10 Insul. profile 0526700000 -
Cross-connection bracket	

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	0.5...4 mm ²
Screw connection, flexible	0.5...4 mm ²	0.5...4 mm ²
Solder connection	-	-
Conductor cross-section	AWG 22...12	AWG 22...12
Current of through-busbar	20 mA	1 A
Cross-section	4 mm ²	4 mm ²
Permissible current range	2...20 mA	0.1...1 A
LED current	-	-
Voltage other versions on request	3...250 V~	3...250 V~
Indicator other versions on request	LED	red and green
Indicator other versions on request		Glow lamp

Ordering data	
Type	DK 4 GL I/32
Cat. No.	1111060000
Type	DK 4 GL I/35
Cat. No.	1111160000

Accessories	
Mounting rail (2 m lengths)	TS 15 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	QB 2*) 0482700000 100 QB 3*) 0482800000 50 QB 4*) 0482900000 50 QB 75 bare 0526400000 10 Insul. profile 0526700000 -
Cross-connection bracket	

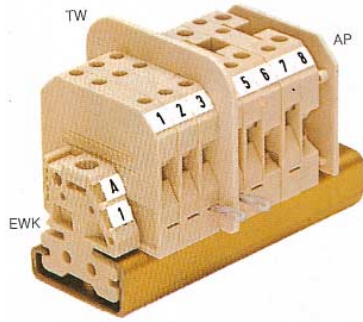
Length	mm	35.5
Height (incl. TS 32/TS 35x7.5)	mm	30
Terminal width (+ assembly tolerance 0.2)	mm	6
Insulation stripping length	mm	9
Screw connection, solid core	0.5...4 mm ²	0.5...4 mm ²
Screw connection, flexible	0.5...4 mm ²	0.5...4 mm ²
Solder connection	-	up to 1.5 mm ²
Conductor cross-section	AWG 22...12/solder...16	AWG 22...12/solder...16
Current of through-busbar	10 A	10 A
Cross-section	4 mm ² /1.5 mm ²	4 mm ² /1.5 mm ²
Permissible current range	< 5 mA	< 5 mA
LED current	< 5 mA	< 5 mA
Voltage other versions on request	24 V~	24 V~
Indicator other versions on request		green

Ordering data	
Type	AKZ 4 LD
Cat. No.	0639460000
Type	AKZ 4 LD
Cat. No.	0639560000
Type	AKZ 4 LD
Cat. No.	8022520000

Accessories	
Mounting rail (2 m lengths)	TS 15
End bracket (thickness mm)	EW 15
End plate (thickness mm)	AP PA
Small partition	TSch 4
Socket contact for test plug	StB 8.5
Test plug (pin diameter ø 2.3 mm)	PS
Cross-connector (pre-assembled)	Q 2 Q 3 Q 4 Q 10
Switchable cross-connecting link	VL 2
Connection sleeve	VH 10
Fixing screw	BS M 2.5x14
Cross-connecting bridge	QB 75 bare
Cross-connection bracket	Insul. profile

* When using QB conductor connection, max. 2.5 mm²

Compensating Terminals

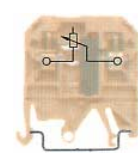
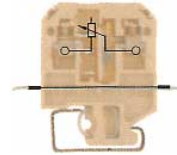
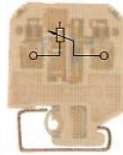


SAKL 4/ ...

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
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VDE rated data	
Power	1 W
Cross-section	4 mm ²

Approvals	
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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

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 PA	0649260000	10
SAKL 4/500 k PA	0649560000	10
SAKL 4/32	0643760000	10
(without potentiometer)		

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	

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

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

Length	40
Height (incl. TS 32/TS 35x7.5)	51.5
Terminal width (+ assembly tolerance 0.2)	6.5
Insulation stripping length	9

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
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VDE rated data	
Power	1 W
Cross-section	4 mm ²

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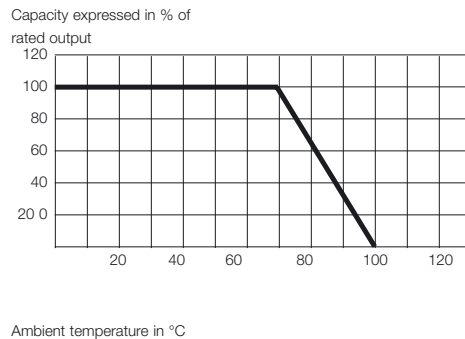
Ordering data	
Resistance	10 Ω
	30 Ω
	50 Ω
	100 Ω
	500 Ω
	1 kΩ
	5 kΩ
	10 kΩ
	100 kΩ
	500 kΩ
	2 MΩ

Type	Cat. No.	Qty.
SAKL 4/10 PA	0649160000	10
SAKL 4/30 L PA	0572860000	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 PA	0649260000	10
SAKL 4/500 k PA	0649560000	10
SAKL 4/32	0643760000	10
(without potentiometer)		

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	

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

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



Length	41.5
Height (incl. TS 32/TS 35x7.5)	41.5/48
Terminal width (+ assembly tolerance 0.2)	6.5
Insulation stripping length	9

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

Conductor cross-section	AWG 22...12
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VDE rated data	
Power	1 W
Cross-section	4 mm ²

Approvals	
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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

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	1305160000	
(without potentiometer)		

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	

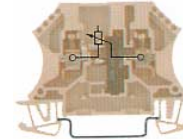
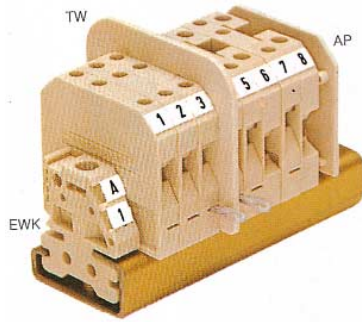
TS 32	0122800000	-
EWK 1 (8.5)	0206160000	50
AP PA (1.5)	0117960000	20
TW PA (1.5)	0130160000	20

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

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

AWG 22...12

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

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 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

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

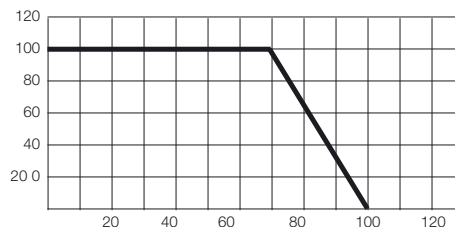
Ordering data

Type	Cat. No.	Qty.
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

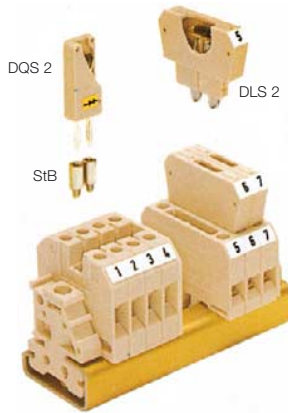
Mounting rail (2 m lengths)	
End bracket (thickness mm)	for TS 35 0383400000 -
End plate (thickness mm)	0383560000 50
End plate (thickness mm)	
Partition (thickness mm)	
Shielding rail	
Solder lug	

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

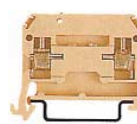


WTR 2.5 D

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

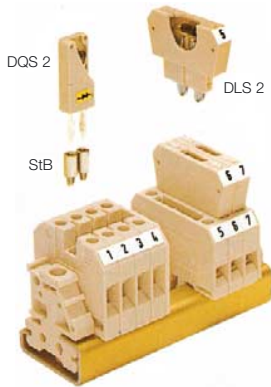
Ordering data

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	100
without components	50		without components	50		without components	-				
DLS 2	0547660000		DLS 2	0547660000		WSD 2.5	1058660000				
with wire link	50		with wire link	50		with wire link	-		with diode 1 N 4007		
DLS 2	0630160000		DLS 2	0630160000		WSD 2.5	1058560000		WTR 2.5 D	8016820000	100
with diode 1 N 4007	50		with diode 1 N 4007	10		with diode 1 N 4007	-				
DLS 2	0547760000		DLS 2	0547760000		WSD 2.5	1058460000		with diode 1 N 4007		
with diode 1 N 4007	50		with diode 1 N 4007	50		with diode 1 N 4007	-		WTR 2.5 D on request		100
SAKR-D, TS 32	0263660000		SAKR-D, TS 35	0299560000		WTR 2.5 D	1013500000				
with DLS 2 054776	25		with DLS 2 054776	25		with WSD 2.5 105856	100		with 2 antiparallel diodes 1 N 4007		
SAKR-D, TS 32	0413060000		SAKR-D, TS 35	0185760000		WTR 2.5 D	1013600000		WTR 2.5 D	1014600000	25
with DLS 2 without components	50		with DLS 2 without components	50		with WSD 2.5 105846	100				
SAKR-D, TS 32	0413160000		SAKR-D, TS 35	1175360000		WTR 2.5 D	1013700000		with test sockets and Diode 1 N 4007		
with test sockets and DLS 2 without components	50		with test sockets and DLS 2 without components	-		with WSD 2.5 105866	-		WTR 2.5 D	1014700000	25
Special design			Special design			WTR 2.5 D	1013200000		with test sockets and WSD 2.5		
SAKR-D, TS 32	0606560000		SAKR-D, TS 35	1175460000		with test sockets and WSD 2.5 105856	-				25
with test socket and 2 antiparallel diodes 1 N 4007, without DLS 2	25		with test socket and 2 antiparallel diodes 1 N 4007, without DLS 2	-		WTR 2.5 D	1013300000		with test sockets and Diode 1 N 4007		
SAKR-D, TS 32	0412960000		SAKR-D, TS 35	0299960000		with test sockets and WSD 2.5 105846	-		WTR 2.5 D	1014800000	25
100			100			WTR 2.5 D	1013400000				
SAKR-D, TS 32	0546460000					with test sockets and WSD 2.5 105866	-		with test sockets and 2 antiparallel diodes 1 N 4007		
with test sockets	100										

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 1 A
 Diode reverse voltage 1000 V 24 V
 Cross-section -

Ordering data

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

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:

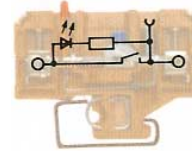
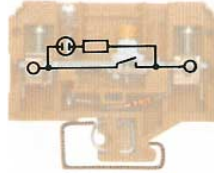
- Length 10 mm
- Diameter 4 mm
- Power 0.5 Watt
- Limit temperature 100 °C

Longitudinal Disconnect Terminals

With diodes

SAKT 1 GL

SAKT 4 LD



Dimensions	
Length	mm
Height (incl. TS 32)	mm
Terminal width (+ assembly tolerance 0.2)	mm
Insulation stripping length	mm

Connection data	
Screw connection, solid	0.5...10 mm ²
Screw connection, flexible	0.5...6 mm ²
Conductor cross-section	AWG 20...8

VDE rated data	
Voltage	115 V~
Current	27 A
Indicator current	1 0.5 mA
Cross-section	6 mm ²

Ordering data	
Type	SAKT 1 GL
Cat. No.	0333520000
	for TS 32 <input type="checkbox"/>

Accessories	
Mounting rail (2 m lengths)	TS 32 0122800000 -

End bracket (thickness mm)	EWK 1 (8.5) 0206160000 50
----------------------------	---------------------------

End plate (thickness mm)	AP KrG (3) 0146720000 20
Partition (thickness mm)	TW KrG (3) 0242920000 20 TW PA (1.5) 0242960000 20 TW HP (0.5) 0474700000 20

Small partition	TSch 2 0353660000 100
Cross-connection, individual	QL 2 0194300000 50 QL 3 0194400000 50 QL 4 0194500000 50 QL 10 0338300000 20 VH 12 0249000000 100
Type: „QL“ (order VH and BS with it)	

Connection sleeve (fits QL)	BS M 3x20 0377100000 100
Fixing screw (fits QL) Cu Ni	StB 14 0169900000 50
Test plug socket	PS (ø 4) 0299600000 20

Cross-connection plug	QS 2 0270960000 20
Cross-connection bracket	QB 2 0205700000 50 QB 3 0205800000 50 QB 4 0205900000 50

Cross-connection slide	QB 10 0343800000 20 QVS 2 0307300000 20 QVS 3 0329300000 20 QVS 4 0307400000 20
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Connection sleeve for QVS	VH 19 0318000000 50
Fixing screws for QVS	BS 25 0334700000 50
Disconnect lock	SSP 3 0531760000 100

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

Screw connection, solid	0.5...10 mm ²
Screw connection, flexible	0.5...6 mm ²
Conductor cross-section	AWG 20...8

Voltage	230 V~
Current	27 A
Indicator current	1 0.5 mA
Cross-section	6 mm ²

Ordering data		
Type	Cat. No.	Qty.
SAKT 1 GL	0333520000	

Indicator	Glow lamp
Mounting rail (2 m lengths)	TS 32 0122800000 -

End bracket (thickness mm)	EWK 1 (8.5) 0206160000 50
----------------------------	---------------------------

End plate (thickness mm)	AP KrG (3) 0146720000 20
Partition (thickness mm)	TW KrG (3) 0242920000 20 TW PA (1.5) 0242960000 20 TW HP (0.5) 0474700000 20

Small partition	TSch 2 0353660000 100
Cross-connection, individual	QL 2 0194300000 50 QL 3 0194400000 50 QL 4 0194500000 50 QL 10 0338300000 20 VH 12 0249000000 100
Type: „QL“ (order VH and BS with it)	

Connection sleeve (fits QL)	BS M 3x20 0377100000 100
Fixing screw (fits QL) Cu Ni	StB 14 0169900000 50
Test plug socket	PS (ø 4) 0299600000 20

Cross-connection plug	QS 2 0270960000 20
Cross-connection bracket	QB 2 0205700000 50 QB 3 0205800000 50 QB 4 0205900000 50

Cross-connection slide	QB 10 0343800000 20 QVS 2 0307300000 20 QVS 3 0329300000 20 QVS 4 0307400000 20
------------------------	--

Connection sleeve for QVS	VH 19 0318000000 50
Fixing screws for QVS	BS 25 0334700000 50
Disconnect lock	SSP 3 0531760000 100

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

Screw connection, solid	0.5...10 mm ²
Screw connection, flexible	0.5...6 mm ²
Conductor cross-section	AWG 20...8

Voltage	24 V~
Current	27 A
Indicator current	1 0.5 mA
Cross-section	6 mm ²

Ordering data		
Type	Cat. No.	Qty.
SAKT 1 GL	0333620000	

Indicator	Glow lamp
Mounting rail (2 m lengths)	TS 32 0122800000 -

End bracket (thickness mm)	EWK 1 (8.5) 0206160000 50
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End plate (thickness mm)	AP KrG (3) 0146720000 20
Partition (thickness mm)	TW KrG (3) 0242920000 20 TW PA (1.5) 0242960000 20 TW HP (0.5) 0474700000 20

Small partition	TSch 2 0353660000 100
Cross-connection, individual	QL 2 0194300000 50 QL 3 0194400000 50 QL 4 0194500000 50 QL 10 0338300000 20 VH 12 0249000000 100
Type: „QL“ (order VH and BS with it)	

Connection sleeve (fits QL)	BS M 3x20 0377100000 100
Fixing screw (fits QL) Cu Ni	StB 14 0169900000 50
Test plug socket	PS (ø 4) 0299600000 20

Cross-connection plug	QS 2 0270960000 20
Cross-connection bracket	QB 2 0205700000 50 QB 3 0205800000 50 QB 4 0205900000 50

Cross-connection slide	QB 10 0343800000 20 QVS 2 0307300000 20 QVS 3 0329300000 20 QVS 4 0307400000 20
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Connection sleeve for QVS	VH 19 0318000000 50
Fixing screws for QVS	BS 25 0334700000 50
Disconnect lock	SSP 3 0531760000 100

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

Screw connection, solid	0.5...6 mm ²
Screw connection, flexible	0.5...4 mm ²
Conductor cross-section	AWG 22...12

Voltage	24 V~
Current	27 A
Indicator current	1 0.5 mA
Cross-section	4 mm ²

Ordering data		
Type	Cat. No.	Qty.
SAKT 4 LD	0254920000	
Socket-contact for test plug PS 2 mm ø		

Indicator	LED, red
Mounting rail (2 m lengths)	TS 32 0122800000 -

End bracket (thickness mm)	EWK 1 (8.5) 0206160000 50
----------------------------	---------------------------

End plate (thickness mm)	AP KrG (3) 0146720000 20
Partition (thickness mm)	TW KrG (3) 0242920000 20 TW PA (1.5) 0242960000 20 TW HP (0.5) 0474700000 20

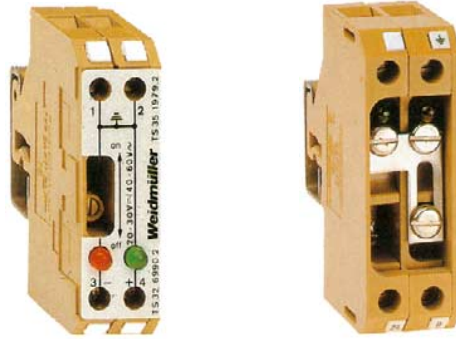
Small partition	TSch 2 0353660000 100
Cross-connection, individual	QL 2 0194300000 50 QL 3 0194400000 50 QL 4 0194500000 50 QL 10 0338300000 20 VH 8 0266700000 100
Type: „QL“ (order VH and BS with it)	

Connection sleeve (fits QL)	BS M 3x15 0377200000 100
Fixing screw (fits QL) Cu Ni	StB 8.5 (ø 2) 0244600000 -
Test plug socket	PS (ø 2) 0293800000 20 PS (ø 2.3) 0180400000 20

Cross-connection plug	DQS 2 (ø 2) 0300260000 20
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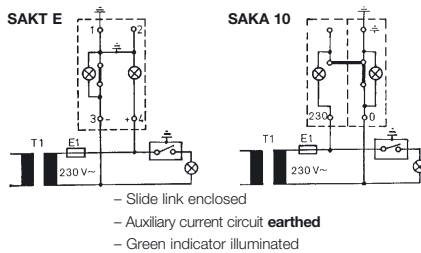
Earth Test/Disconnect Terminals

SAKT E/SAKA 10



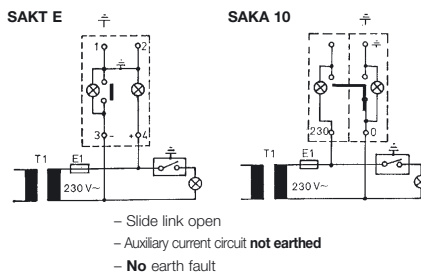
Mode of operation

Operating status



Test mode

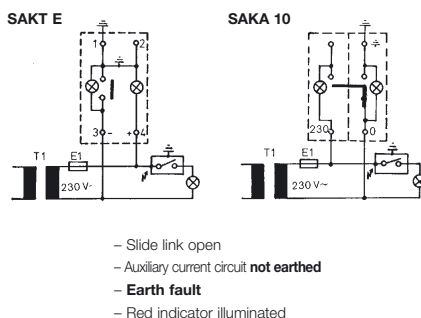
For insulation measurements with voltages >U_{rated}, earth must be disconnected.



– Green and red indicators light up with reduced intensity

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

Operating status



Dimensions	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 mm ² /16 mm ²				
Screw connection, flexible	0.5...6 mm ² /10 mm ²				
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
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		(24 V~)			(only 230 V~)
		1174920000			1175020000
Type		SAKA 10		SAKA 10	SAKA 10
Cat. No. (10 mm ²) for TS 32 Y/TS 35		(24 V~)		(115 V~)	(230 V~)
		8150150000		1128820000	8109130000
Accessories					
Mounting rail (2 m lengths)	Type	Cat. No.		Qty.	
	TS 32	0122800000		-	
	TS 35	0383400000		-	
End bracket (Thick. 8.5 mm)					
	for TS 32	EWK 1	0206160000		50
	for TS 35	EW 35	0383560000		50

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.

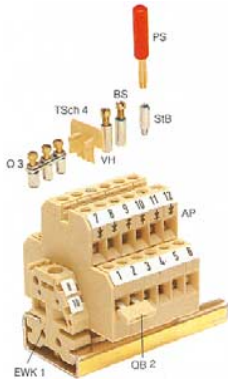
3. Fault mode

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

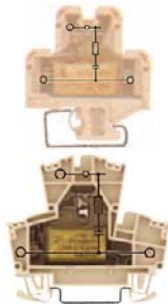
with electronic components

(other versions on request)



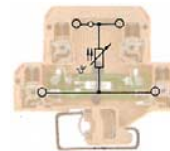
DK 4 RC WDK 2.5 RC

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



DK 4 PT 100

PT 100 temperature sensor



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	230 V~/400 V~
Diode current	-
Current of through-busbar	10 A
Operating temperature range	-
Diode	-
Resistance	220 Ω
Capacitor	0.22 μ F
Ordering data	
Type	
Cat. No.	for TS 32 <input type="checkbox"/>
Type	
Cat. No.	for TS 35 <input type="checkbox"/>
Type	
Cat. No.	for TS 35 <input type="checkbox"/>
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 ϕ 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	

50		
56.5		
18		
9		
0.5...4 mm ²		
-		
AWG 22...12		
-		
230 V~/400 V~		
-		
10 A		
-		
-		
220 Ω		
0.22 μ F		
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	-

65		
56.5		
6		
0.5...4 mm ²		
0.5...2.5 mm ²		
AWG 22...12		
-50...+100 °C		
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