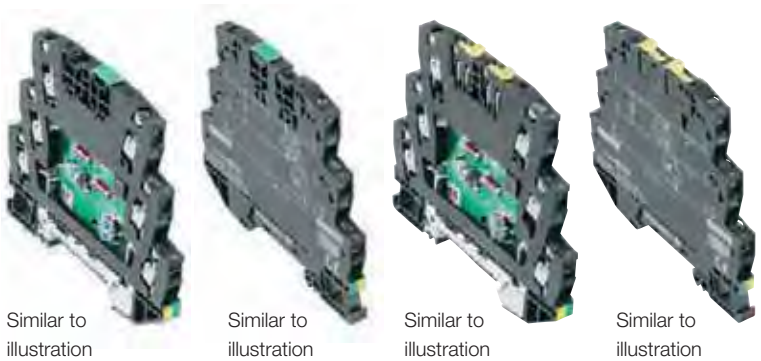
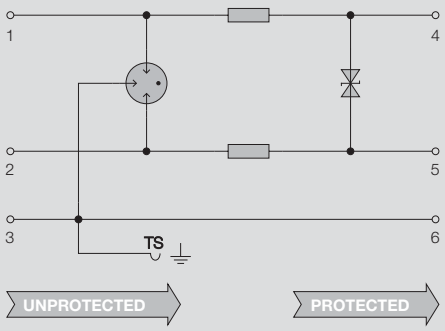
VSSC 6AN CL and TR CL – protection for analogue signals (CL) with and without disconnect lever (TR)

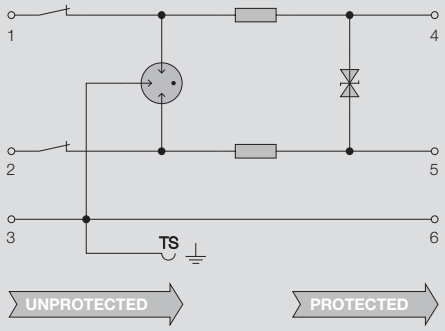
Two stage surge protection with screw connection for instrumentation, control and automation technology

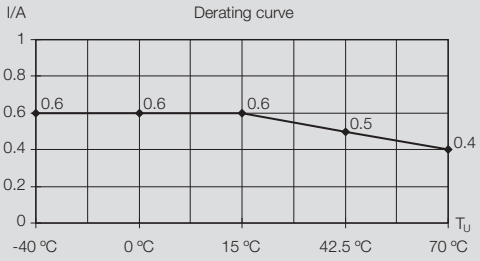
- Surge protection in terminal block format
- Modular width of just 6.2 mm
- Space saving design: 1 analogue signal
- Torx® slotted screw connection
- Can be used to comply with the IEC 62305 installation standard and the IEC 61643-1/-22 standards
- Integrated PE contact in base element, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE



Similar to illustration | Similar to illustration | Similar to illustration | Similar to illustration







Technical data

General data	
Nominal current	500 mA (see derating curve)
Dielectric strength at FG against PE	–
Volume resistivity	1.8 Ω ± 10 %
Overstressed fault mode	Mode 2
Requirement category IEC 61643-21	C2; C3; D1
Standards	IEC 61643-21
Surge strength C2	2.5 kA
Surge strength C3	50 A
Surge strength D1	0.5 kA
Rated discharge current I_N (8/20 µs) wire-wire / wire-PE / GND-PE	2.5 kA / 2.5 kA / –
Rated discharge current I_{max} (8/20 µs) wire-wire / wire-PE / GND-PE	5 kA / 5 kA / –
Lightning test current, I_{imp} (10/350 µs) wire-wire / wire-PE / GND-PE	– / 0.5 kA / –
Storage temperature	-40 °C...+80 °C
Ambient temperature (operational)	-40 °C...+70 °C
Humidity	5...96 % RH
Degree of protection	IP20
Flammability class	V0
Connection	Torx® T15 / slot 0.8 x 4
Tightening torque	0.5 Nm
Conductor cross section, flexible, ferrule (DIN 46228-1), max.	4 mm²
Conductor cross section, flexible, ferrule (DIN 46228-1), min.	0.5 mm²
Conductor cross section, solid, max.	6 mm²
Conductor cross section, solid, min.	0.5 mm²
Conductor cross section, stranded, Rated connection, max.	4 mm²
Conductor cross section, stranded, Rated connection, min.	0.5 mm²
Stripping length	10 mm
Mounting rail	TS35
Length x width x height	88.5 x 6.2 x 81 mm

Accessories: Screwdriver: Torx® 9009170000, slotted 9008340000; test plug: PS 2.3 0180400000; EMC SET: 1067470000; marker: WS 10/6 1818400000, DEK 6 0468560000, SNAPMARK 1805880000; end plate: 1063110000

VSSC CL and TR CL




Technical data	CL 12 V DC	CL 24 V UC	CL 48 V UC	CL 60 V UC
Rated voltage AC/DC	12 V DC	24 V AC / 34 V DC	48 V AC / 68 V DC	60 V AC / 85 V DC
Max. continuous voltage U_c (AC) / (DC)	15 V DC	30 V AC / 42 V DC	60 V AC / 85 V DC	75 V AC / 106 V DC
Signal transmission properties (-3 dB)	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz
Pulse reset capacity	≤ 20 ms	≤ 170 ms	≤ 150 ms	≤ 20 ms
Residual voltage U_p	≤ 1600 V	≤ 1650 V	≤ 1510 V	≤ 1520 V
wire-wire / wire-PE / GND-PE	35 V / 900 V / -	90 V / 900 V / -	200 V / 770 V / -	260 V / 780 V / -
Protection level on output side sym., input 1 kV/µs, typ.	30 V	70 V	70 V	200 V
Protection level on output side unsym., input 1 kV/µs, typ.	900 V	900 V	770 V	780 V
Ordering data				
Type	VSSC6 CL 12Vdc 0.5A	VSSC6 CL 24Vuc 0.5A	VSSC6 CL 48Vuc 0.5A	VSSC6 CL 60Vuc 0.5A
Order No.	**1064150000**	**1064170000**	**1064190000**	**1064210000**
Qty.	10 pieces	10 pieces	10 pieces	10 pieces
Note				

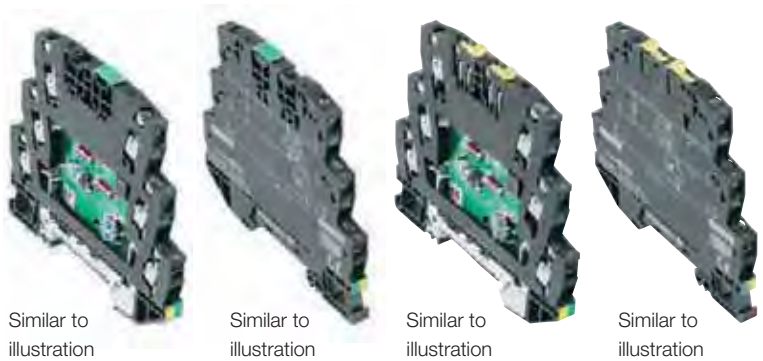



Technical data	TR CL 12 V DC	TR CL 24 V UC	TR CL 48 V UC	TR CL 60 V UC
Rated voltage AC/DC	12 V DC	24 V AC/ 34 V DC	48 V AC / 68 V DC	60 V AC / 85 V DC
Max. continuous voltage U_c (AC) / (DC)	15 V DC	30 V AC/ 42 V DC	60 V AC / 85 V DC	75 V AC / 106 V DC
Signal transmission properties (-3 dB)	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz
Pulse reset capacity	≤ 20 ms	≤ 170 ms	≤ 150 ms	≤ 20 ms
Residual voltage U_p	≤ 1600 V	≤ 1650 V	≤ 1510 V	≤ 1520 V
wire-wire / wire-PE / GND-PE	35 V / 900 V / -	90 V / 900 V / -	200 V / 770 V / -	260 V / 780 V / -
Protection level on output side sym., input 1 kV/µs, typ.	30 V	70 V	150 V	200 V
Protection level on output side unsym., input 1 kV/µs, typ.	900 V	900 V	770 V	780 V
Disconnect lever	Yes	Yes	Yes	Yes
Testing option	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5
Ordering data				
Type	VSSC6 TR CL 12Vdc 0.5A	VSSC6 TR CL 24Vuc 0.5A	VSSC6 TR CL 48Vuc 0.5A	VSSC6 TR CL 60Vuc 0.5A
Order No.	**1064220000**	**1064230000**	**1064240000**	**1064250000**
Qty.	10 pieces	10 pieces	10 pieces	10 pieces
Note				

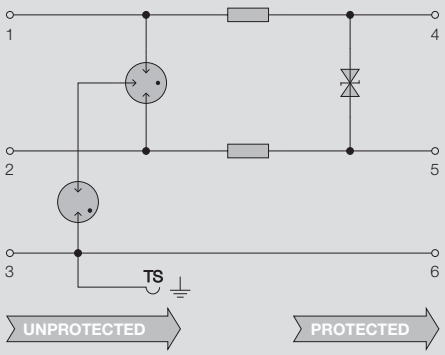
VSSC 6AN CLFG and TR CLFG – protection for analogue signals (CL) with floating ground (FG) with and without disconnect lever (TR)

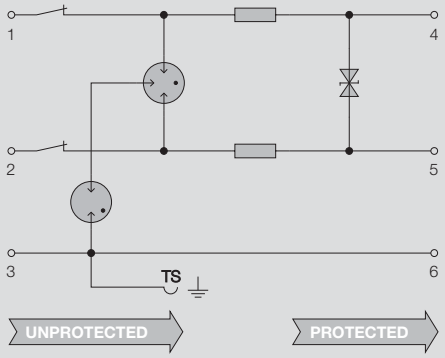
Two stage surge protection with screw connection for instrumentation, control and automation technology

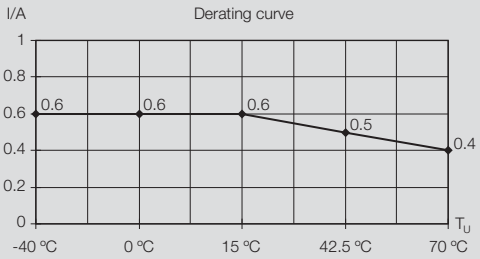
- Surge protection in terminal-block format
- Modular width of just 6.2 mm
- Space saving design: 1 analogue signal
- Torx® slotted screw connection
- Can be used to comply with the IEC 62305 installation standard and the IEC 61643-1/-22 applications standards.
- Integrated PE contact in base element, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- Version with floating ground PE connection used to avoid differences in voltage potential



Similar to illustration | Similar to illustration | Similar to illustration | Similar to illustration







Technical data

General data	
Nominal current	500 mA (see derating curve)
Dielectric strength at FG against PE	≥ 500 V
Volume resistivity	1.8 Ω ± 10 %
Overstressed fault mode	Mode 2
Requirement category acc. to IEC 61643-21	C2; C3; D1
Standards	IEC 61643-21
Surge strength C2	2.5 kA
Surge strength C3	50 A
Surge strength D1	0.5 kA
Rated discharge current I_N (8/20 µs) wire-wire / wire-PE / GND-PE	2.5 kA / 2.5 kA / –
Rated discharge current I_{max} (8/20 µs) wire-wire / wire-PE / GND-PE	5 kA / 5 kA / –
Lightning test current, I_{imp} (10/350 µs) wire-wire / wire-PE / GND-PE	– / 0.5 kA / –
Storage temperature	-40 °C...+80 °C
Ambient temperature (operational)	-40 °C...+70 °C
Humidity	5...96 % RH
Degree of protection	IP20
Flammability class	V0
Connection data	
Connection	Torx® screw T15 / slot 0.8 x 4
Tightening torque	0.5 Nm
Conductor cross section, flexible, ferrule (DIN 46228-1), max.	4 mm²
Conductor cross section, flexible, ferrule (DIN 46228-1), min.	0.5 mm²
Conductor cross section, solid, max.	6 mm²
Conductor cross section, solid, min.	0.5 mm²
Conductor cross section, stranded, Rated connection, max.	4 mm²
Conductor cross section, stranded, Rated connection, min.	0.5 mm²
Stripping length	10 mm
Mounting rail	TS35
Dimensions	
Length x width x height	88.5 x 6.2 x 81 mm

Accessories: Screwdriver: Torx® 9009170000, slotted 9008340000; test plug: PS 2.3 0180400000; EMC SET: 1067470000; marker: WS 10/6 1818400000, DEK 6 0468560000, SNAPMARK 1805880000; end plate: 1063110000

VSSC 6AN CLFG and TR CLFG




Technical data	CLFG 12 V DC	CLFG 24 V UC	CLFG 48 V UC	CLFG 60 V UC
Rated voltage AC/DC	12 V DC	24 V AC/ 34 V DC	48 V AC / 68 V DC	60 V AC / 85 V DC
Max. continuous voltage U_c (AC) / (DC)	15 V DC	30 V AC / 42 V DC	60 V AC / 85 V DC	75 V AC / 106 V DC
Signal transmission properties (-3 dB)	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz
Pulse reset capacity	≤ 20 ms	≤ 20 ms	≤ 20 ms	≤ 20 ms
Residual voltage U_p	≤ 35 V	≤ 85 V	≤ 90 V	≤ 300 V
wire-wire / wire-PE / GND-PE	35 V / 1600 V / 800 V	90 V / 1632 V / 800 V	200 V / 1510 V / 800 V	260 V / 1510 V / 800 V
Protection level on output side sym.				
Input 1 kV/µs, typ.	30 V	70 V	150 V	200 V
Protection level on output side unsym.,				
Input 1 kV/µs, typ.	1600 V	1632 V	1510 V	1510 V
Ordering data				
Type	VSSC6 CLFG 12VDC 0.5A	VSSC6 CL FG24VUC 0.5A	VSSC6 CLFG 48VUC 0.5A	VSSC6 CLFG 60VUC 0.5A
Order No.	**1064260000**	**1064270000**	**1064280000**	**1064290000**
Qty.	10 pieces	10 pieces	10 pieces	10 pieces
Note				



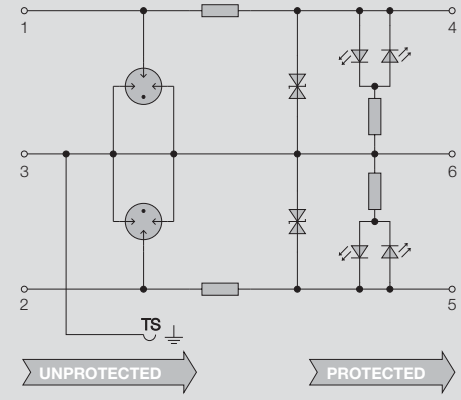

Technical data	TR CLFG 12 V DC	TR CLFG 24 V UC	TR CLFG 48 V UC	TR CLFG 60 V UC
Rated voltage AC/DC	12 V DC	24 V AC / 34 V DC	48 V AC / 68 V DC	60 V AC / 85 V DC
Max. continuous voltage U_c (AC) / (DC)	15 V DC	30 V AC / 42 V DC	60 V AC / 85 V dc	75 V AC / 106 V DC
Signal transmission properties (-3 dB)	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz
Pulse reset capacity	≤ 20 ms	≤ 20 ms	≤ 20 ms	≤ 20 ms
Residual voltage U_p	≤ 35 V	≤ 85 V	≤ 90 V	≤ 300 V
wire-wire / wire-PE / GND-PE	35 V / 1600 V / 800 V	90 V / 1632 V / 800 V	200 V / 1510 V / 800 V	260 V / 1510 V / 800 V
Protection level on output side sym.				
Input 1 kV/µs, typ.	30 V	70 V	150 V	200 V
Protection level on output side unsym.,				
Input 1 kV/µs, typ.	1600 V	1632 V	1510 V	1510 V
Disconnect lever	yes	yes	yes	yes
Testing option	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5
Ordering data				
Type	VSSC6 TR CLFG 12Vdc0.5	VSSC6TR CLFG 24VUC 0.5A	VSSC6 TR CLFG 48VUC 0.5A	VSSC6 TR CLFG 60VUC 0.5A
Order No.	**1064300000**	**1064310000**	**1064320000**	**1064330000**
Qty.	10 pieces	10 pieces	10 pieces	10 pieces
Note				

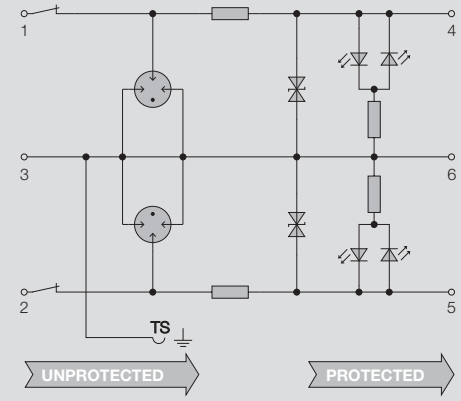
VSSC 6AN SL and TR SL – protection for binary signals (SL) with and without disconnect lever (TR) and indicator (LD)

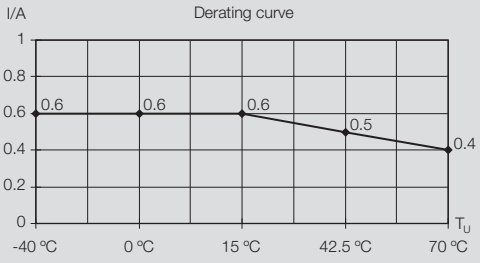
Two-stage surge protection with screw connection for instrumentation, control and automation technology

- Surge protection in terminal-block format
- Modular width of just 6.2 mm
- Space saving design: 2 binary signals
- Torx® slotted screw connection
- Can be used to comply with the IEC 62305 installation standard and the IEC 61643-1/-22 applications standards
- Integrated PE contact in base element, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE

Similar to illustration | Similar to illustration | Similar to illustration | Similar to illustration







Technical data

General data	
Nominal current	500 mA (see derating curve)
Dielectric strength at FG against PE	–
Volume resistivity	1.8 Ω ± 10 %
Overstressed fault mode	Mode 2
Requirement category acc. to IEC 61643-21	C2; C3; D1
Standards	IEC 61643-21
Surge strength C2	2.5 kA
Surge strength D1	1 kA
Rated discharge current I_N (8/20 µs) wire-wire / wire-PE / GND-PE	– / 2.5 kA / –
Rated discharge current I_{max} (8/20 µs) wire-wire / wire-PE / GND-PE	– / 10 kA / –
Lightning test current, I_{imp} (10/350 µs) wire-wire / wire-PE / GND-PE	– / 1 kA / –
Storage temperature	-40 °C...+80 °C
Ambient temperature (operational)	-40 °C...+70 °C
Humidity	5...96 % RH
Degree of protection	IP20
Flammability class	V0
Connection data	
Connection	Torx® screw T15 / slot 0.8 x 4
Tightening torque	0.5 Nm
Conductor cross section, flexible, ferrule (DIN 46228-1), max.	4 mm²
Conductor cross section, flexible, ferrule (DIN 46228-1), min.	0.5 mm²
Conductor cross section, solid, max.	6 mm²
Conductor cross section, solid, min.	0.5 mm²
Conductor cross section, stranded, Rated connection, max.	4 mm²
Conductor cross section, stranded, Rated connection, min.	0.5 mm²
Stripping length	10 mm
Mounting rail	TS35
Dimensions	
Length x width x height	88.5 x 6.1 x 81 mm

Accessories: Screwdriver: Torx® 9009170000, slotted 9008340000; test plug: PS 2.3 0180400000; EMC SET: 1067470000; marker: WS 10/6 1818400000, DEK 6 0468560000, SNAPMARK 1805880000; end plate: 1063110000

VSSC 6AN SL and TR SL




Technical data	SL LD 12 V DC	SL LD 24 V UC	SL LD 48 V UC	SL LD 60 V UC
Rated voltage AC/DC	12 V DC	24 V AC / 34 V DC	48 V AC/ 68 V DC	60 V AC / 85 V DC
Max. continuous voltage U_c (AC) / (DC)	15 V DC	30 V AC / 42 V DC	60 V AC / 85 V DC	75 V AC / 106 V DC
Signal transmission properties (-3 dB)	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz
Pulse reset capacity	≤ 30 ms	≤ 30 ms	≤ 30 ms	≤ 30 ms
Residual voltage U_p	≤ 40 V	≤ 100 V	≤ 220 V	≤ 330 V
wire-wire / wire-PE / GND-PE	- / 74 V / -	- / 110 V / -	- / 175 V / -	- / 230 V / -
Protection level on output side sym.				
Input 1 kV/µs, typ.	-	-	-	-
Protection level on output side unsym.,				
Input 1 kV/µs, typ.	74 V	110 V	175 V	230 V
Surge strength C3	10 A	50 A	50 A	50 A
Status indicator	Yes	Yes	Yes	Yes
Ordering data				
Type	VSSC6 SL LD 12VDC 0.5A	VSSC6 SL LD 24VUC 0.5A	VSSC6 SL LD 48VUC 0.5A	VSSC6 SL LD 60VUC 0.5A
Order No.	**1064340000**	**1064350000**	**1064360000**	**1064370000**
Qty.	10 pieces	10 pieces	10 pieces	10 pieces
Note				



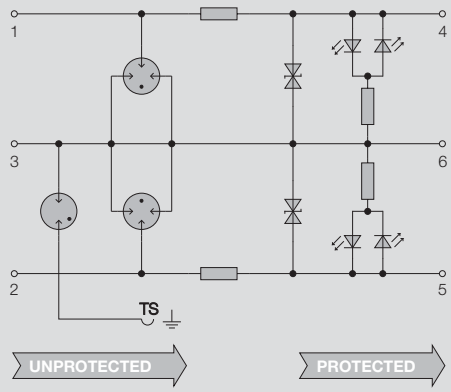

Technical data	TR SL LD 12 V DC	TR SL LD 24 V UC	TR SL LD 48 V UC	TR SL LD 60 V UC
Rated voltage AC/DC	12 V DC	24 V AC / 34 V DC	48 V AC/ 68 V DC	60 V AC / 85 V DC
Max. continuous voltage U_c (AC) / (DC)	15 V DC	30 V AC / 42 V DC	60 V AC / 85 V DC	75 V AC / 106 V DC
Signal transmission properties (-3 dB)	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz
Pulse reset capacity	≤ 30 ms	≤ 30 ms	≤ 30 ms	≤ 30 ms
Residual voltage U_p	≤ 40 V	≤ 100 V	≤ 220 V	≤ 330 V
wire-wire / wire-PE / GND-PE	- / 74 V / -	- / 110 V / -	- / 175 V / -	- / 230 V / -
Protection level on output side sym.				
Input 1 kV/µs, typ.	-	-	-	-
Protection level on output side unsym.,				
Input 1 kV/µs, typ.	74 V	110 V	175 V	230 V
Surge strength C3	10 A	50 A	50 A	50 A
Disconnect lever	Yes	Yes	Yes	Yes
Testing option	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5
Status indicator	Yes	Yes	Yes	Yes
Ordering data				
Type	VSSC6 TR SL LD12Vdc0.5A	VSSC6 TR SL LD 24VUC 0.5A	VSSC6 TR SL LD 48VUC 0.5A	VSSC6 TR SL LD 60VUC 0.5A
Order No.	**1064380000**	**1064390000**	**1064400000**	**1064410000**
Qty.	10 pieces	10 pieces	10 pieces	10 pieces
Note				

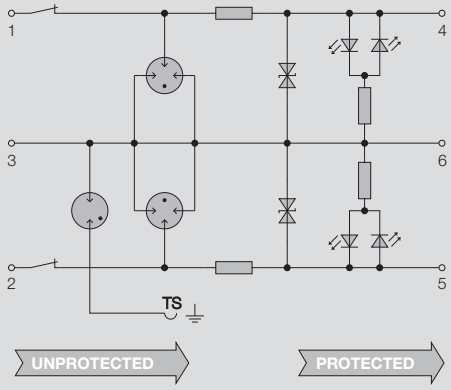
VSSC 6AN SLFG and TR SLFG – protection for binary signals (SL) with floating ground (FG), with and without disconnect lever (TR) and indicator (LD)

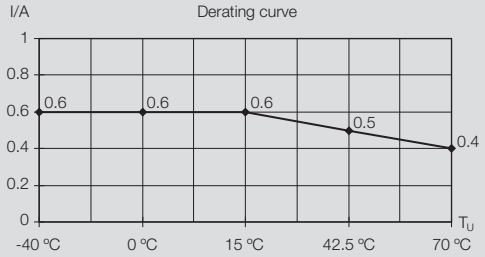
Two stage surge protection with screw connection for instrumentation, control and automation technology

- Surge protection in terminal block format
- Modular width of just 6.2 mm
- Space saving design: 2 binary signals
- Torx® slotted screw connection
- Can be used to comply with the IEC 62305 installation standard and the IEC 61643-1/-22 applications standards
- Integrated PE contact in base element, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- Version with floating ground PE connection used to avoid differences in voltage potential

Similar to illustration | Similar to illustration | Similar to illustration | Similar to illustration







Technical data

General data	
Dielectric strength at FG against PE	≥ 500 V
Volume resistivity	1.8 Ω ± 10 %
Overstressed fault mode	Mode 2
Requirement category acc. to IEC 61643-21	C2; C3; D1
Standards	IEC 61643-21
Surge strength C2	2.5 kA
Surge strength C3	10 A; 50 A @ 60 V
Surge strength D1	1 kA
Rated discharge current I_N (8/20 µs) wire-wire / wire-PE / GND-PE	– / 2.5 kA / 2.5 kA
Rated discharge current I_{max} (8/20 µs) wire-wire / wire-PE / GND-PE	– / 10 kA / 10 kA
Lightning test current, I_{imp} (10/350 µs) wire-wire / wire-PE / GND-PE	– / 10 kA / –
Storage temperature	-40 °C...+80 °C
Ambient temperature (operational)	-40 °C...+70 °C
Humidity	5...96 % RH
Degree of protection	IP20
Flammability class	V0
Connection data	
Connection	Torx® screw T15 / slot 0.8 x 4
Tightening torque	0.5 Nm
Conductor cross section, flexible, ferrule (DIN 46228-1), max.	4 mm²
Conductor cross section, flexible, ferrule (DIN 46228-1), min.	0.5 mm²
Conductor cross section, solid, max.	6 mm²
Conductor cross section, solid, min.	0.5 mm²
Conductor cross section, stranded, Rated connection, max.	4 mm²
Conductor cross section, stranded, Rated connection, min.	0.5 mm²
Stripping length	10 mm
Mounting rail	TS35
Dimensions	
Length x width x height	88.5 x 6.2 x 81 mm

Accessories: Screwdriver: Torx® 9009170000, slotted 9008340000; test plug: PS 2.3 0180400000; EMC SET: 1067470000; marker: WS 10/6 1818400000, DEK 6 0468560000, SNAPMARK 1805880000; end plate: 1063110000

VSSC 6AN SLFG and TR SLFG




Technical data	SLFG LD 12 V DC	SLFG LD 24 V UC	SLFG LD 48 V UC	SLFG LD 60 V UC
Rated voltage AC/DC	12 V DC	24 V AC / 34 V DC	48 V AC / 68 V DC	60 V AC / 85 V DC
Max. continuous voltage U_c (AC) / (DC)	15 V DC	30 V AC / 42 V DC	60 V AC / 85 V DC	75 V AC / 106 V DC
Signal transmission properties (-3 dB)	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz
Pulse reset capacity	≤ 20 ms	≤ 20 ms	≤ 20 ms	≤ 20 ms
Residual voltage U_p	≤ 1600 V	≤ 1650 V	≤ 1550 V	≤ 1550 V
wire-wire / wire-PE / GND-PE	- / 74 V / 1400 V	- / 110 V / 1400 V	- / 175 V / 1200 V	- / 230 V / 1200 V
Protection level on output side sym.				
Input 1 kV/µs, typ.	30 V	70 V	150 V	200 V
Protection level on output side unsym.,				
Input 1 kV/µs, typ.	74 V	110 V	175 V	230 V
Nominal current	500 mA	200 mA (IEC 61643-21)	on request	on request
Status indicator	yes	yes	yes	yes
Ordering data				
Type	VSSC6 SLFG 12VDC 0.5A	VSSC6 SLFG 24VUC 0.5A	VSSC6 SLFG 48VUC 0.5A	VSSC6 SLFG 60VUC 0.5A
Order No.	**1064420000**	**1064430000**	**1064440000**	**1064470000**
Qty.	10 pieces	10 pieces	10 pieces	10 pieces
Note				




Technical data	TR SLFG LD 12 V DC	TR SLFG LD 24 V UC	TR SLFG LD 48 V UC	TR SLFG LD 60 V UC
Rated voltage AC/DC	12 V DC	24 V AC / 34 V DC	48 V AC / 68 V DC	60 V AC / 85 V DC
Max. continuous voltage U_c (AC) / (DC)	15 V DC	30 V AC / 42 V DC	60 V AC / 85 V DC	75 V AC / 106 V DC
Signal transmission properties (-3 dB)	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz	≤ 700 kHz
Pulse reset capacity	≤ 20 ms	≤ 20 ms	≤ 20 ms	≤ 20 ms
Residual voltage U_p	≤ 1600 V	≤ 1650 V	≤ 1550 V	≤ 1550 V
wire-wire / wire-PE / GND-PE	- / 74 V / 1400 V	- / 110 V / 1400 V	- / 175 V / 1200 V	- / 230 V / 1200 V
Protection level on output side sym.				
Input 1 kV/µs, typ.	30 V	70 V	150 V	200 V
Protection level on output side unsym.,				
Input 1 kV/µs, typ.	74 V	110 V	175 V	230 V
Nominal current	500 mA	200 mA (IEC 61643-21)	on request	on request
Disconnect lever	Yes	Yes	Yes	Yes
Testing option	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5
Status indicator	Yes	Yes	Yes	Yes
Ordering data				
Type	VSSC6 TR SLFG LD 12VDC 0.5A	VSSC6 TR SLFG LD 24VUC 0.5A	VSSC6 TR SL FG LD 48VUC 0.5A	VSSC6 TR SLFG LD 60VUC 0.5A
Order No.	**1064490000**	**1064500000**	**1064510000**	**1064520000**
Qty.	10 pieces	10 pieces	10 pieces	10 pieces
Note				

VSSC 6AN MOV and TR LD MOV 12 V DC and 24 V UC – with varistor, with and without disconnect lever (TR) and indicator (LD)

Surge protection with screw connection for instrumentation, control and automation technology

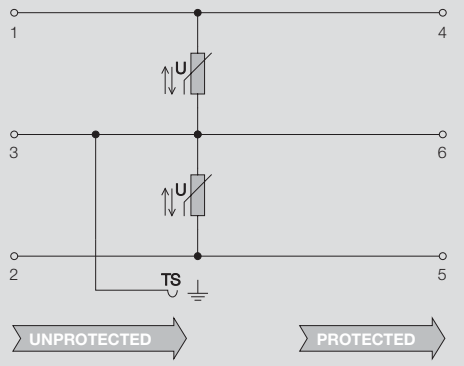
- Surge protection in terminal block format
- Modular width of just 6.2 mm
- Space saving design: 2 analogue signals
- Torx® slotted screw connection
- Can be used to comply with the IEC 62305 installation standard and the IEC 61643-1/-22 applications standards
- Integrated PE contact in base element, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE

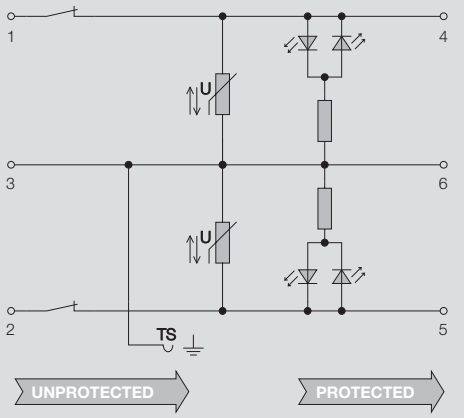
Similar to illustration

Similar to illustration

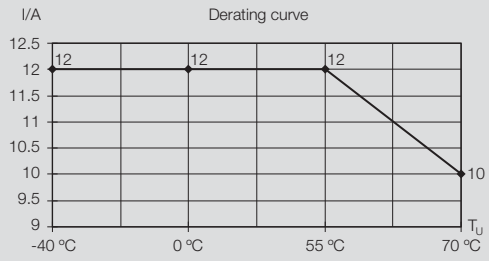
Similar to illustration

Similar to illustration





Simplified diagram



Technical data

General data	
Nominal current	12 A (see derating curve)
Volume resistivity	< 0.1 Ω
Overstressed fault mode	Mode 1
Requirement category acc. to IEC 61643-21	C1
Standards	IEC 61643-21 (Pending)
Surge strength C1	0.25 kA
Rated discharge current I_N (8/20 µs) wire-wire / wire-PE / GND-PE	– / 500 A / –
Rated discharge current I_{max} (8/20 µs) wire-wire / wire-PE / GND-PE	– / 1 kA / –
Storage temperature	-40 °C...+80 °C
Ambient temperature (operational)	-40 °C...+70 °C
Humidity	5...96 % RH
Degree of protection	IP20
Flammability class	V0
Connection data	
Connection	Torx® screw T15 / slot 0.8 x 4
Tightening torque	0.5 Nm
Conductor cross section, flexible, ferrule (DIN 46228-1), max.	4 mm²
Conductor cross section, flexible, ferrule (DIN 46228-1), min.	0.5 mm²
Conductor cross section, solid, max.	6 mm²
Conductor cross section, solid, min.	0.5 mm²
Conductor cross section, stranded, Rated connection, max.	4 mm²
Conductor cross section, stranded, Rated connection, min.	0.5 mm²
Stripping length	10 mm
Mounting rail	TS35
Dimensions	
Length x width x height	88.5 x 6.2 x 81 mm

Accessories: Screwdriver: Torx® 9009170000, slotted 9008340000; test plug: PS 2.3 0180400000; EMC SET: 1067470000; marker: WS 10/6 1818400000, DEK 6 0468560000, SNAPMARK 1805880000; end plate: 1063110000

VSSC MOV and TR LD MOV
12 V DC and 24 V UC

Technical data	MOV 12 V DC	MOV 24 V UC
Rated voltage AC/DC	12 V DC	24 V AC / 34 V DC
Max. continuous voltage U_c (AC) / (DC)	15 V DC	30 V AC / 42 V DC
Signal transmission properties (-3 dB)	≤ 100 kHz	≤ 400 kHz
Residual voltage U_p	≤ 50 V	≤ 100 V
wire-wire / wire-PE / GND-PE	- / 57 V / -	- / 120 V / -
Protection level on output side sym.		
Input 1 kV/µs, typ.	50 V	150 V
Ordering data		
Type	VSSC6 MOV 12VDC	VSSC6 MOV 24VUC
Order No.	**1064530000**	**1064540000**
Qty.	10 pieces	10 pieces
Note		

Technical data	TR LD MOV 12 V DC	TR LD MOV 24 V UC
Rated voltage AC/DC	12 V DC	24 V AC / 34 V DC
Max. continuous voltage U_c (AC) / (DC)	15 V DC	30 V AC / 42 V DC
Signal transmission properties (-3 dB)	≤ 100 kHz	≤ 400 kHz
Residual voltage U_p	≤ 50 V	≤ 100 V
wire-wire / wire-PE / GND-PE	- / 57 V / -	- / 120 V / -
Protection level on output side sym.		
Input 1 kV/µs, typ.	50 V	150 V
Disconnect lever	Yes	Yes
Testing option	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5
Status indicator	Yes	Yes
Ordering data		
Type	VSSC6 TR LD MOV 12Vdc	VSSC6 TR MOV 24VUC
Order No.	**1064800000**	**1064810000**
Qty.	10 pieces	10 pieces
Note		

VSSC 6AN MOV and TR LD MOV 48 V UC and 60 V UC – with varistor, with and without disconnect lever (TR) and indicator (LD)

Surge protection with screw connection for instrumentation, control and automation technology

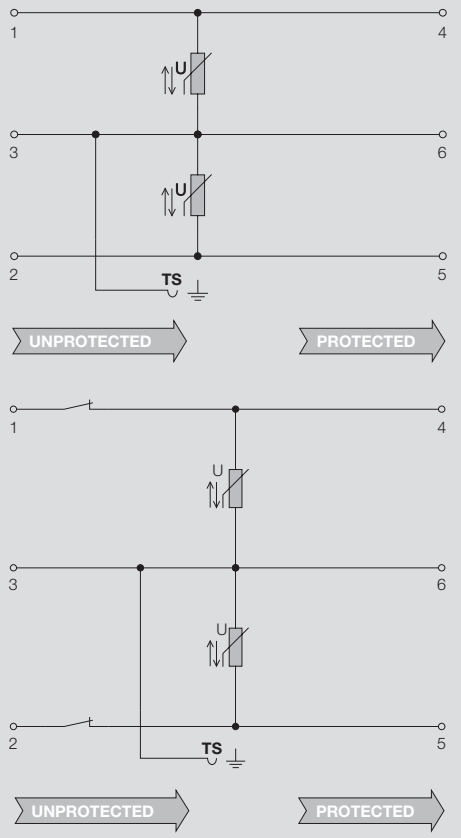
- Surge protection in terminal block format
- Modular width of just 6.2 mm
- Space saving design: 2 analogue signals
- Torx® slotted screw connection
- Can be used to comply with the IEC 62305 installation standard and the IEC 61643-1/-22 applications standards
- Integrated PE contact in base element, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE

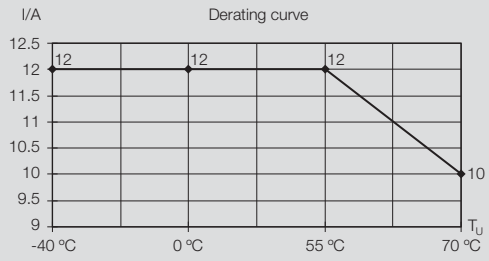
Similar to illustration

Similar to illustration

Similar to illustration

Similar to illustration





Technical data

General data	
Nominal current	12 A (see derating curve)
Volume resistivity	< 0.1 Ω
Overstressed fault mode	Mode 1
Requirement category acc. to IEC 61643-21	C1
Standards	acc. to IEC 61643-21
Surge strength C1	0.5 kA
Surge strength C2	1 kA
Rated discharge current I_N (8/20 µs) wire-wire / wire-PE / GND-PE	– / 1 kA / –
Rated discharge current I_{max} (8/20 µs) wire-wire / wire-PE / GND-PE	– / 4.5 kA / –
Storage temperature	-40 °C...+80 °C
Ambient temperature (operational)	-40 °C...+70 °C
Humidity	5...96 % RH
Degree of protection	IP20
Flammability class	V0
Connection data	
Connection	Torx® screw T15 / slot 0.8 x 4
Tightening torque	0.5 Nm
Conductor cross section, flexible, ferrule (DIN 46228-1), max.	4 mm²
Conductor cross section, flexible, ferrule (DIN 46228-1), min.	0.5 mm²
Conductor cross section, solid, max.	6 mm²
Conductor cross section, solid, min.	0.5 mm²
Conductor cross section, stranded, Rated connection, max.	4 mm²
Conductor cross section, stranded, Rated connection, min.	0.5 mm²
Stripping length	10 mm
Mounting rail	TS35
Dimensions	
Length x width x height	88.5 x 6.2 x 81 mm

Accessories: Screwdriver: Torx® 9009170000, slotted 9008340000; test plug: PS 2.3 0180400000; EMC SET: 1067470000; marker: WS 10/6 1818400000, DEK 6 0468560000, SNAPMARK 1805880000; end plate: 1063110000

VSSC MOV and TR LD MOV
48 V UC and 60 V UC

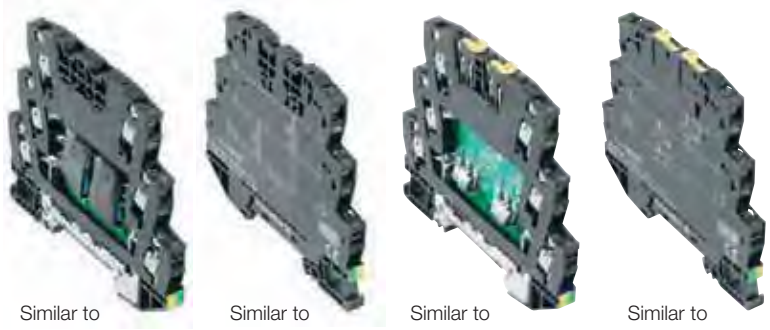
Technical data	MOV 48VUC	MOV 60VUC
Rated voltage AC/DC	48 V AC / 60 V DC	60 V AC / 85 V DC
Max. continuous voltage U_C (AC) / (DC)	60 V AC / 85 V DC	75 V AC / 106 V DC
Signal transmission properties (-3 dB)	≤ 400 kHz	≤ 600 kHz
Residual voltage U_p	≤ 200 V	≤ 250 V
wire-wire / wire-PE / GND-PE	- / 213 V / -	- / 269 V / -
Protection level on output side sym.		
Input 1 kV/µs, typ.	200 V	250 V
Ordering data		
Type	VSSC6 MOV 48VUC	VSSC6 MOV 60VUC
Order No.	**1064570000**	**1064600000**
Qty.	10 pieces	10 pieces
Note		

Technical data	TR LD MOV 48VUC	TR LD MOV 60VUC
Rated voltage AC/DC	48 V AC / 60 V DC	60 V AC / 85 V DC
Max. continuous voltage U_C (AC) / (DC)	60 V AC / 85 V DC	75 V AC / 106 V DC
Signal transmission properties (-3 dB)	≤ 400 kHz	≤ 600 kHz
Residual voltage U_p	≤ 200 V	≤ 250 V
wire-wire / wire-PE / GND-PE	- / 213 V / -	- /269 V / -
Protection level on output side sym.		
Input 1 kV/µs, typ.	200 V	250 V
Disconnect lever	Yes	Yes
Testing option	Functional screw with test plug	Functional screw with test plug
Status indicator	receptacle connection 1, 2, 4, 5	receptacle connection 1, 2, 4, 5
Ordering data		
Type	VSSC6 TR LD MOV 48VUC	VSSC6 TR LD MOV 60VUC
Order No.	**1064820000**	**1064830000**
Qty.	10 pieces	10 pieces
Note		

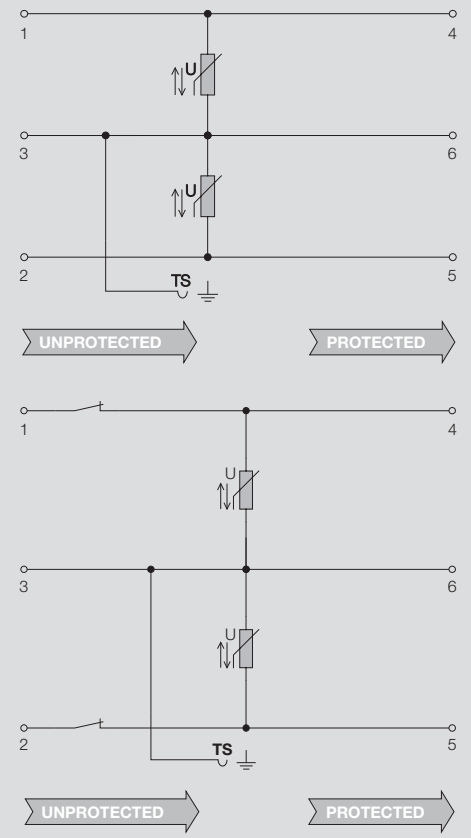
VSSC 6AN MOV and TR LD MOV 120 V UC, 150 V UC and 240 V UC – with varistor, with and without disconnect lever (TR) and indicator (LD)

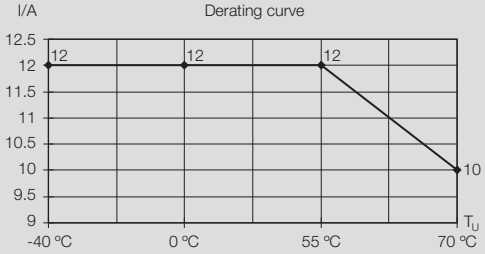
Surge protection with screw connection for instrumentation, control and automation technology

- Surge protection in terminal block format
- Modular width of just 6.2 mm
- Space saving design: 2 analogue signals
- Torx® slotted screw connection
- Can be used to comply with the IEC 62305 installation standard and the IEC 61643-1/-22 applications standards
- Integrated PE contact in base element, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE



Similar to illustration | Similar to illustration | Similar to illustration | Similar to illustration





Technical data

General data	
Nominal current	12 A (see derating curve)
Volume resistivity	< 0.1 Ω
Overstressed fault mode	Mode 1
Requirement category acc. to IEC 61643-21	C1. C2
Standards	IEC 61643-21 (Pending)
Surge strength C1	0.5 kA
Surge strength C2	1.5 kA
Rated discharge current I_N (8/20 µs) wire-wire / wire-PE / GND-PE	– / 500 A / –
Rated discharge current I_{max} (8/20 µs) wire-wire / wire-PE / GND-PE	– / 1.5 kA / –
Storage temperature	-40 °C...+80 °C
Ambient temperature (operational)	-40 °C...+70 °C
Humidity	5...96 % RH
Degree of protection	IP20
Flammability class	V0
Connection data	
Connection	Torx® screw T15 / slot 0.8 x 4
Tightening torque	0.5 Nm
Conductor cross section, flexible, ferrule (DIN 46228-1), max.	4 mm²
Conductor cross section, flexible, ferrule (DIN 46228-1), min.	0.5 mm²
Conductor cross section, solid, max.	6 mm²
Conductor cross section, solid, min.	0.5 mm²
Conductor cross section, stranded, Rated connection, max.	4 mm²
Conductor cross section, stranded, Rated connection, min.	0.5 mm²
Stripping length	10 mm
Mounting rail	TS35
Dimensions	
Length x width x height	88.5 x 12.4 x 81 mm

Accessories: Screwdriver: Torx® 9009170000, slotted 9008340000; test plug: PS 2.3 0180400000; EMC SET: 1067470000; marker: WS 10/6 1818400000, DEK 6 0468560000, SNAPMARK 1805880000; end plate: 1063110000

VSSC MOV and TR LD MOV
120 V UC, 150 V UC and 240 V UC



Technical data	MOV 120VUC	MOV 150VUC	MOV 240VUC
Rated voltage AC/DC	120 V AC / 170 V DC	150 V AC / 212 V DC	240 V AC / 339 V DC
Max. continuous voltage U_c (AC) / (DC)	150 V AC / 212 V DC	188 V AC / 266 V DC	288 V AC / 407 V DC
Signal transmission properties (-3 dB)	≤ 1 MHz	≤ 1 MHz	≤ 1,7 MHz
Residual voltage U_p	≤ 500 V	≤ 600 V	≤ 900 V
wire-wire / wire-PE / GND-PE	- / 543 V / -	- / 641 V / -	- / 1022 V / -
Protection level on output side sym.			
Input 1 kV/µs, typ.	500 V	600 V	1000 V
Ordering data			
Type	VSSC6 MOV 120VUC	VSSC6 MOV 150VUC	VSSC6 MOV 240VUC
Order No.	**1064610000**	**1064620000**	**1064630000**
Qty.	10 pieces	10 pieces	10 pieces
Note			

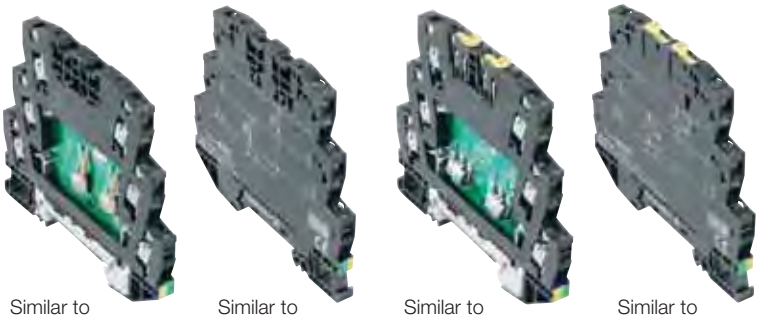


Technical data	TR LD MOV 120VUC	TR LD MOV 150VUC	TR LD MOV 240VUC
Rated voltage AC/DC	120 V AC / 170 V DC	150 V AC / 212 V DC	240 V AC / 339 V DC
Max. continuous voltage U_c (AC) / (DC)	150 V AC / 212 V DC	188 V AC / 266 V DC	288 V AC / 407 V DC
Signal transmission properties (-3 dB)	≤ 1 MHz	≤ 1 MHz	≤ 1,7 MHz
Residual voltage U_p	≤ 500 V	≤ 600 V	≤ 900 V
wire-wire / wire-PE / GND-PE	- / 543 V / -	- / 641 V / -	- / 1022 V / -
Protection level on output side sym.			
Input 1 kV/µs, typ.	500 V	600 V	1000 V
Disconnect lever	Yes	Yes	Yes
Testing option	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5
Status indicator	Yes	Yes	Yes
Ordering data			
Type	VSSC6 TR LD MOV 120VUC	VSSC6 TR LD MOV 150VUC	VSSC6 TR LD MOV 240VUC
Order No.	**1064840000**	**1064850000**	**1064860000**
Qty.	10 pieces	10 pieces	10 pieces
Note			

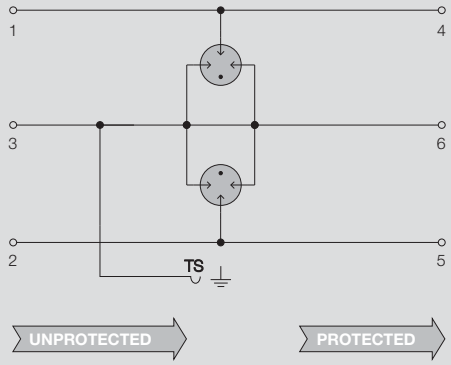
VSSC 6AN GDT and TR GDT 10 kA – with gas discharge tube, with and without disconnect lever (TR)

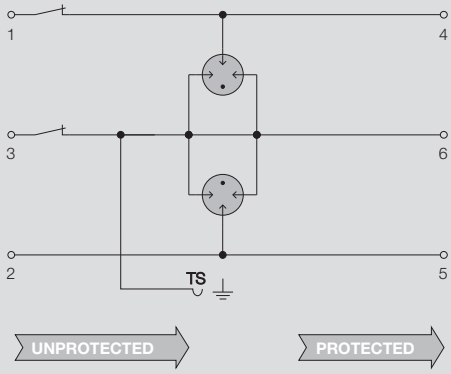
Surge protection with screw connection for instrumentation, control and automation technology

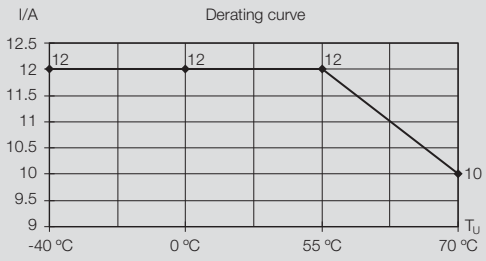
- Surge protection in terminal block format
- Modular width of just 6.2 mm or 12.4 mm
- Space saving design: 2 analogue signals
- Torx® slotted screw connection
- Can be used to comply with the IEC 62305 installation standard and the IEC 61643-1/-22 applications standards
- Integrated PE contact in base element, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE



Similar to illustration | Similar to illustration | Similar to illustration | Similar to illustration







Technical data

General data	
Nominal current	12 A (see derating curve)
Volume resistivity	< 0.1 Ω
Overstressed fault mode	Mode 2
Requirement category acc. to IEC 61643-21	C2, C3, D1
Standards	IEC 61643-21
Surge strength C2	2.5 kA
Surge strength C3	50 A
Rated discharge current I_N (8/20 µs) wire-wire / wire-PE / GND-PE	– / 2.5 kA / –
Rated discharge current I_{max} (8/20 µs) wire-wire / wire-PE / GND-PE	– / 10 kA / –
Lightning test current, I_{imp} (10/350 µs) wire-wire / wire-PE / GND-PE	– / 1 kA / –
Storage temperature	-40 °C...+80 °C
Ambient temperature (operational)	-40 °C...+70 °C
Humidity	5...96 % RH
Degree of protection	IP20
Flammability class	V0
Connection data	
Connection	Torx® screw T15 / slot 0.8 x 4
Tightening torque	0.5 Nm
Conductor cross section, flexible, ferrule (DIN 46228-1), max.	4 mm²
Conductor cross section, flexible, ferrule (DIN 46228-1), min.	0.5 mm²
Conductor cross section, solid, max.	6 mm²
Conductor cross section, solid, min.	0.5 mm²
Conductor cross section, stranded, Rated connection, max.	4 mm²
Conductor cross section, stranded, Rated connection, min.	0.5 mm²
Stripping length	10 mm
Mounting rail	TS35

Accessories: Screwdriver: Torx® 9009170000, slotted 9008340000; test plug: PS 2.3 0180400000; EMC SET: 1067470000; marker: WS 10/6 1818400000, DEK 6 0468560000, SNAPMARK 1805880000; end plate: 1063110000

VSSC GDT and TR GDT 10 kA



Technical data	GDT 24VUC 10kA	GDT 110VUC 10kA	GDT 240VUC 10kA
Rated voltage AC/DC	24 V AC / 34 V DC	110 V AC / 156 V DC	240 V AC / 339 V DC
Max. continuous voltage U_C (AC) / (DC)	30 V AC / 42 V DC	138 V AC / 195 V DC	288 V AC / 407 V DC
Signal transmission properties (-3 dB)	≤ 2 MHz	≤ 2 MHz	≤ 2 MHz
Pulse reset capacity	≤ 30 ms	≤ 30 ms	≤ 30 ms
Residual voltage U_p	≤ 1000 V	≤ 1000 V	≤ 800 V
wire-wire / wire-PE / GND-PE	- / 976 V / -	- / 1153 V / -	- / 1792 V / -
Protection level on output side sym.			
Input 1 kV/µs, typ.	600 V	900 V	1200 V
Surge strength D1	1 kA	1 kA	0,5 kA
Dimensions			
Length x width x height	88.5 x 6.2 x 81 mm	88.5 x 6.2 x 81 mm	88.5 x 12.4 x 81 mm
Ordering data			
Type	VSSC6 GDT 24VUC 10KA	VSSC6 GDT 110VUC 10KA	VSSC6 GDT 240VUC 10KA
Order No.	**1064640000**	**1064690000**	**1064710000**
Qty.	10 pieces	10 pieces	5 pieces
Note			

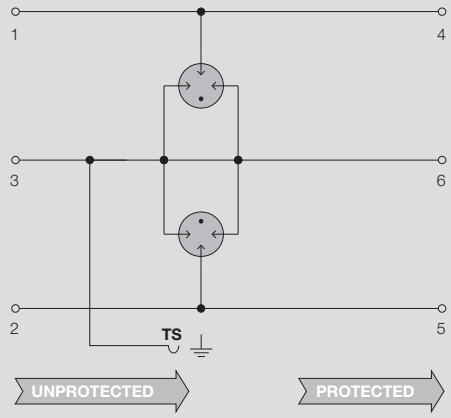


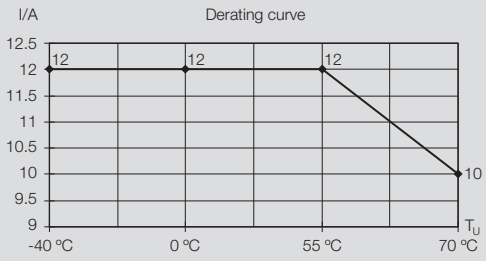
Technical data	TR GDT 24VUC 10kA	TR GDT 110VUC 10kA	TR GDT 240VUC 10kA
Rated voltage AC/DC	24 V AC / 34 V DC	110 V AC / 156 V DC	240 V AC / 339 V DC
Max. continuous voltage U_C (AC) / (DC)	30 V AC / 42 V DC	138 V AC / 195 V DC	288 V AC / 407 V DC
Signal transmission properties (-3 dB)	≤ 2 MHz	≤ 2 MHz	≤ 2 MHz
Pulse reset capacity	≤ 30 ms	≤ 30 ms	≤ 30 ms
Residual voltage U_p	≤ 1000 V	≤ 1000 V	≤ 800 V
wire-wire / wire-PE / GND-PE	- / 976 V / -	- / 1153 V / -	- / 1792 V / -
Protection level on output side sym.			
Input 1 kV/µs, typ.	600 V	900 V	1200 V
Surge strength D1	1 kA	1 kA	0,5 kA
Disconnect lever	Yes	Yes	Yes
Testing option	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5
Dimensions			
Length x width x height	88.5 x 6.2 x 81 mm	88.5 x 6.2 x 81 mm	88.5 x 12.4 x 81 mm
Ordering data			
Type	VSSC6 TR GDT 24VUC 10KA	VSSC6 TR GDT 110VUC 10KA	VSSC6 TR GDT 240VUC 10KA
Order No.	**1064870000**	**1064890000**	**1064920000**
Qty.	10 pieces	10 pieces	5 pieces
Note			

VSSC 6AN GDT and TR GDT 20 kA – with gas discharge tube

Surge protection with screw connection for instrumentation, control and automation technology

- Surge protection in terminal block format
- Modular width of just 12.4 mm
- Space saving design: 2 analogue signals
- Torx® slotted screw connection
- Can be used to comply with the IEC 62305 installation standard and the IEC 61643-1/-22 applications standards
- Integrated PE contact in base element, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE





Technical data

General data	
Nominal current	12 A (see derating curve)
Volume resistivity	< 0.1 Ω
Overstressed fault mode	Mode 2
Requirement category acc. to IEC 61643-21	C2, C3, D1
Standards	IEC 61643-21
Surge strength C2	5 kA
Surge strength C3	100 A
Surge strength D1	2.5 kA
Rated discharge current I_N (8/20 µs) wire-wire / wire-PE / GND-PE	– / 5 kA / –
Rated discharge current I_{max} (8/20 µs) wire-wire / wire-PE / GND-PE	– / 20 kA / –
Lightning test current, I_{imp} (10/350 µs) wire-wire / wire-PE / GND-PE	– / 2.5 kA / –
Storage temperature	-40 °C...+80 °C
Ambient temperature (operational)	-40 °C...+70 °C
Humidity	5...96 % RH
Degree of protection	IP20
Flammability class	V0
Connection data	
Connection	Torx® screw T15 / slot 0.8 x 4
Tightening torque	0.5 Nm
Conductor cross section, flexible, ferrule (DIN 46228-1), max.	4 mm²
Conductor cross section, flexible, ferrule (DIN 46228-1), min.	0.5 mm²
Conductor cross section, solid, max.	6 mm²
Conductor cross section, solid, min.	0.5 mm²
Conductor cross section, stranded, Rated connection, max.	4 mm²
Conductor cross section, stranded, Rated connection, min.	0.5 mm²
Stripping length	10 mm
Mounting rail	TS35
Dimensions	
Length x width x height	88.5 x 12.4 x 81 mm

Accessories: Screwdriver: Torx® 9009170000, slotted 9008340000; test plug: PS 2.3 0180400000; EMC SET: 1067470000; marker: WS 10/6 1818400000, DEK 6 0468560000, SNAPMARK 1805880000; end plate: 1063110000

VSSC GDT 20 kA



Technical data	GDT 24VUC 20kA	GDT 110VUC 20kA	GDT 240VUC 20kA
Rated voltage AC/DC	24 V AC / 34 V DC	110 V AC / 156 V DC	240 V AC / 339 V DC
Max. continuous voltage U_c (AC) / (DC)	30 V AC / 42 V DC	138 V AC / 195 V DC	288 V AC / 407 V DC
Signal transmission properties (-3 dB)	≤ 2 MHz	≤ 2 MHz	≤ 2 MHz
Pulse reset capacity	≤ 30 ms	≤ 30 ms	≤ 30 ms
Residual voltage U_p	≤ 1000 V	≤ 1000 V	≤ 800 V
wire-wire / wire-PE / GND-PE	- / 949 V / -	- / 992 V / -	- / 1288 V / -
Protection level on output side sym.			
Input 1 kV/µs, typ.	600 V	900 V	1200 V
Ordering data			
Type	VSSC6 GDT 24VUC 20KA	VSSC6 GDT 110VUC 20KA	VSSC6 GDT 240VUC 20KA
Order No.	**1064670000**	**1064700000**	**1064720000**
Qty.	5 pieces	5 pieces	5 pieces
Note			

VSSC 6AN TAZ and TR TAZ – with suppressor diode gap, with and without disconnect lever (TR) and indication (LD)

Surge protection with screw connection for instrumentation, control and automation technology

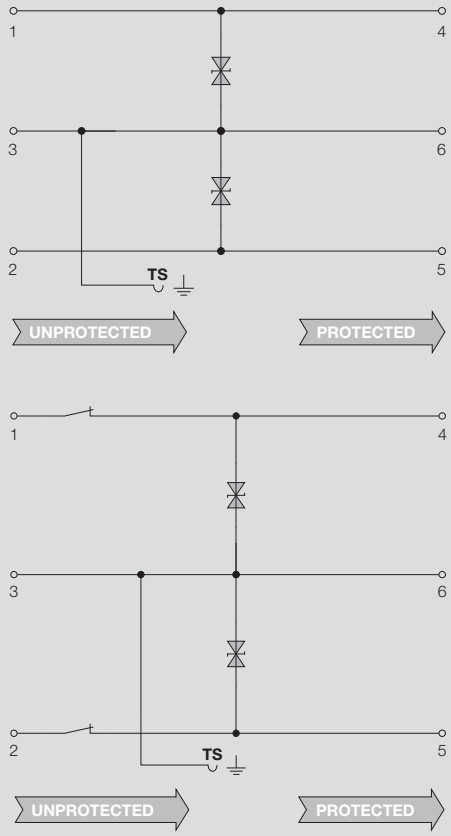
- Surge protection in terminal block format
- Modular width of just 6.2 mm
- Space saving design: 2 analogue signals
- Torx® slotted screw connection
- Can be used to comply with the IEC 62305 installation standard and the IEC 61643-1/-22 applications standards
- Integrated PE contact in base element, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE

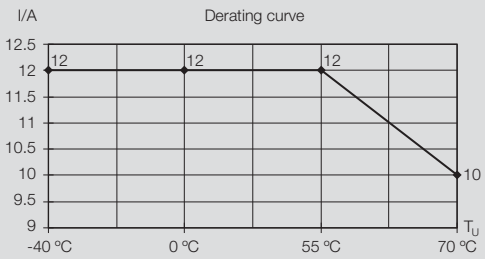
Similar to illustration

Similar to illustration

Similar to illustration

Similar to illustration





Technical data

General data	
Nominal current	12 A (see derating curve)
Volume resistivity	< 0.1 Ω
Overstressed fault mode	Mode 1
Storage temperature	-40 °C...+80 °C
Ambient temperature (operational)	-40 °C...+70 °C
Humidity	5...96 % RH
Degree of protection	IP20
Flammability class	V0
Connection data	
Connection	Torx® screw T15 / slot 0.8 x 4
Tightening torque	0.5 Nm
Conductor cross section, flexible, ferrule (DIN 46228-1), max.	4 mm²
Conductor cross section, flexible, ferrule (DIN 46228-1), min.	0.5 mm²
Conductor cross section, solid, max.	6 mm²
Conductor cross section, solid, min.	0.5 mm²
Conductor cross section, stranded, Rated connection, max.	4 mm²
Conductor cross section, stranded, Rated connection, min.	0.5 mm²
Stripping length	10 mm
Mounting rail	TS35
Dimensions	
Length x width x height	88.5 x 6.2x 81 mm

Accessories: Screwdriver: Torx® 9009170000, slotted 9008340000; test plug: PS 2.3 0180400000; EMC SET: 1067470000; marker: WS 10/6 1818400000, DEK 6 0468560000, SNAPMARK 1805880000; end plate: 1063110000

VSSC TAZ and TR LD TAZ




Technical data	TAZ 12VDC	TAZ 24VUC	TAZ 48VUC	TAZ 60VUC
Rated voltage AC/DC	12 V DC	24 V UC / 34 V DC	48 V AC / 68 V DC	60 V AC / 85 V DC
Max. continuous voltage U_C (AC) / (DC)	15 V DC	30 V AC / 42 V DC	60 V AC / 85 V DC	75 V AC / 106 V DC
Signal transmission properties (-3 dB)	≤ 1 MHz	≤ 1 MHz	≤ 1 MHz	≤ 1 MHz
Pulse reset capacity	≤ 30 ms	≤ 30 ms	≤ 30 ms	≤ 30 ms
Residual voltage U_p	≤ 22 V	≤ 61 V	≤ 85 V	≤ 100 V
wire-wire / wire-PE / GND-PE	- / 26 V / -	- / 62 V / -	- / 200 V / -	- / 260 V / -
Protection level on output side sym.				
Input 1 kV/µs, typ.	30 V	70 V	150 V	200 V
Requirement category to IEC 61643-21	C3	C3	-	-
Surge strength C3	50 A	15 A	-	-
Rated discharge current I_N (8/20 µs) wire-PE	200 A	100 A	50 A	50 A
Rated discharge current I_{max} (8/20 µs) wire-PE	500 A	200 A	100 A	100 A
Standards	IEC 61643-21	IEC 61643-21	acc. to IEC 61643-21	acc. to IEC 61643-21
Ordering data				
Type	VSSC6 TAZ 12VDC	VSSC6 TAZ 24VUC	VSSC6 TAZ 48VUC	VSSC6 TAZ 60VUC
Order No.	**1064730000**	**1064740000**	**1064770000**	**1064790000**
Qty.	10 pieces	10 pieces	10 pieces	10 pieces
Note				




Technical data	TR LD TAZ 12VDC	TR LD TAZ 24VUC	TR LD TAZ 48VUC	TR LD TAZ 60VUC
Rated voltage AC/DC	12 V DC	24 V UC / 34 V DC	48 V AC / 68 V DC	60 V AC / 85 V DC
Max. continuous voltage U_C (AC) / (DC)	15 V DC	30 V AC / 42 V DC	60 V AC / 85 V DC	75 V AC / 106 V DC
Signal transmission properties (-3 dB)	≤ 1 MHz	≤ 1 MHz	≤ 1 MHz	≤ 1 MHz
Pulse reset capacity	≤ 30 ms	≤ 30 ms	≤ 30 ms	≤ 30 ms
Residual voltage U_p	≤ 22 V	≤ 61 V	≤ 85 V	≤ 100 V
wire-wire / wire-PE / GND-PE	- / 26 V / -	- / 62 V / -	- / 200 V / -	- / 260 V / -
Protection level on output side sym.				
Input 1 kV/µs, typ.	30 V	70 V	150 V	200 V
Requirement category to IEC 61643-21	C3	C3	-	-
Surge strength C3	50 A	15 A	-	-
Rated discharge current I_N (8/20 µs) wire-PE	200 A	100 A	50 A	50 A
Rated discharge current I_{max} (8/20 µs) wire-PE	500 A	200 A	100 A	100 A
Standards	IEC 61643-21	IEC 61643-21	acc. to IEC 61643-21	acc. to IEC 61643-21
Disconnect lever	Yes	Yes	Yes	Yes
Testing option	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5	Functional screw with test plug receptacle connection 1, 2, 4, 5
Ordering data				
Type	VSSC6 TR LD TAZ 12VDC	VSSC6 TR LD TAZ 24VUC	VSSC6 TR LD TAZ 48VUC	VSSC6 TR LD TAZ 60VUC
Order No.	**1064940000**	**1064950000**	**1064960000**	**1064970000**
Qty.	10 pieces	10 pieces	10 pieces	10 pieces
Note				

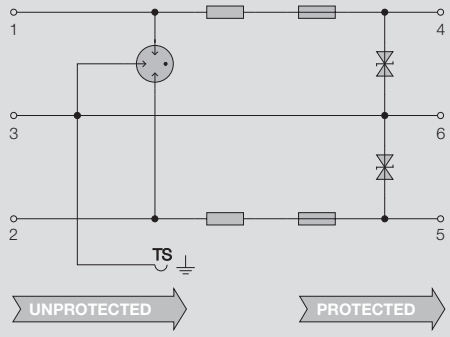
VSSC 6AN RS485, RS485 DP and RS232 – for interface signals

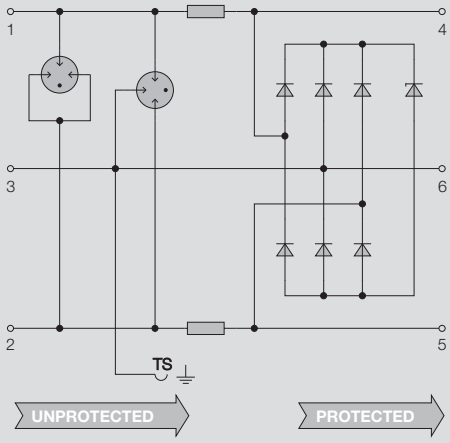
Two-stage surge protection with screw connection for instrumentation, control and automation technology

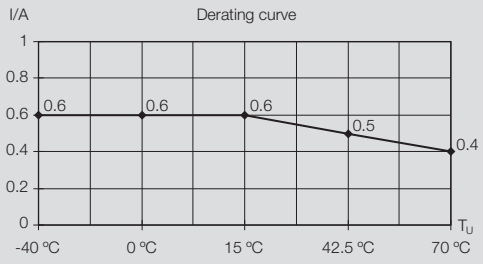
- Surge protection in terminal block format
- Modular width of just 6.2 mm
- Space saving design
- Torx® slotted screw connection
- Can be used to comply with the IEC 62305 installation standard and the IEC 61643-1/-22 applications standards
- Integrated PE contact in base element, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE

Similar to illustration

Similar to illustration







Technical data

General data	
Nominal current	500 mA (see derating curve)
Volume resistivity	1.8 Ω ±10 %
Overstressed fault mode	Mode 2
Requirement category to IEC 61643-21	C2, C3, D1
Standards	IEC 61643-21
Surge strength C2	2.5 kA
Surge strength C3	10 A
Surge strength D1	0.5 kA
Rated discharge current I_N (8/20 µs) wire-wire / wire-PE / GND-PE	2.5 kA / 2.5 kA / –
Rated discharge current I_{max} (8/20 µs) wire-wire / wire-PE / GND-PE	10 kA / 10 kA / –
Lightning test current, I_{imp} (10/350 µs) wire-wire / wire-PE / GND-PE	1 kA
Storage temperature	-40 °C...+80 °C
Ambient temperature (operational)	-40 °C...+70 °C
Humidity	5...96 % RH
Degree of protection	IP20
Flammability class	V0
Connection data	
Connection	Torx® screw T15 / slot 0.8 x 4
Tightening torque	0.5 Nm
Conductor cross section, flexible, ferrule (DIN 46228-1), max.	4 mm²
Conductor cross section, flexible, ferrule (DIN 46228-1), min.	0.5 mm²
Conductor cross section, solid, max.	6 mm²
Conductor cross section, solid, min.	0.5 mm²
Conductor cross section, stranded, Rated connection, max.	4 mm²
Conductor cross section, stranded, Rated connection, min.	0.5 mm²
Stripping length	10 mm
Mounting rail	TS35
Dimensions	
Length x width x height	88.5 x 6.2 x 81 mm

Accessories: Screwdriver: Torx® 9009170000, slotted 9008340000; test plug: PS 2.3 0180400000; EMC SET: 1067470000; marker: WS 10/6 1818400000, DEK 6 0468560000, SNAPMARK 1805880000; end plate: 1063110000

VSSC 6AN RS485, RS485 DP and RS232

Technical data	RS485	RS485 DP	RS232
Rated voltage AC/DC	12 V DC	12 V DC	12 V DC
Max. continuous voltage U_c (DC)	15 V DC	15 V DC	15 V DC
Signal transmission properties (-3 dB)	≤ 2 MHz	≤ 2 MHz	≤ 2 MHz
Pulse reset capacity	≤ 20 ms	≤ 20 ms	≤ 20 ms
Residual voltage U_p	≤ 94 V	≤ 94 V	≤ 80 V
wire-wire / wire-PE / GND-PE	35 V / 35 V / -	35 V / 35 V / -	70 V / 35 V / -
Protection level on output side sym.			
Input 1 kV/µs, typ.	30 V	30 V	60 V
Protection level on output side unsym.,			
Input 1 kV/µs, typ.	94 V	94 V	80 V
Ordering data			
Type	VSSC6 RS485	VSSC6 RS485 DP	VSSC6 RS232
Order No.	**1064980000**	**1065010000**	**1064990000**
Qty.	10 pieces	10 pieces	10 pieces
Note			

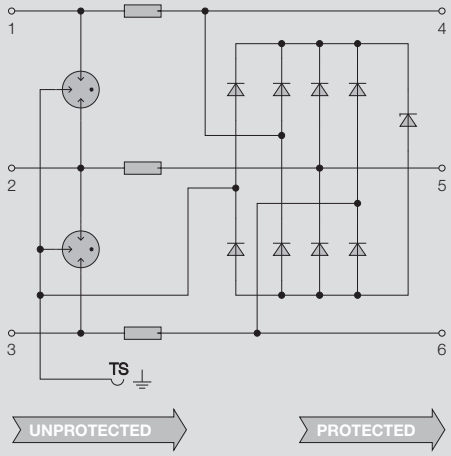
VSSC 6AN RTD – for temperature signals

Two-stage surge protection with screw connection for instrumentation, control and automation technology

- Surge protection in terminal block format
- Modular width of just 6.2 mm
- Space saving design
- Torx® slotted screw connection
- Can be used to comply with the IEC 62305 installation standard and the IEC 61643-1/-22 applications standards
- Integrated PE contact in base element, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE

Similar to illustration

Similar to illustration



Technical data

General data	
Nominal current	300 mA
Dielectric strength at FG against PE	–
Volume resistivity	1.8 Ω ±10 %
Overstressed fault mode	Mode 2
Requirement category acc. to IEC 61643-21	C2, C3, D1
Standards	IEC 61643-21
Surge strength C2	2.5 kA 8/20 µs, 5 kV 1,2/50 µs
Surge strength C3	10 A 10/1000 µs
Surge strength D1	0.5 kA 10/350 µs
Rated discharge current I_N (8/20 µs) wire-wire / wire-PE / GND-PE	2.5 kA / 2.5 kA / –
Rated discharge current I_{max} (8/20 µs) wire-wire / wire-PE / GND-PE	10 kA / 10 kA / –
Lightning test current, I_{imp} (10/350 µs) wire-wire / wire-PE / GND-PE	1 kA
Storage temperature	-40 °C...+80 °C
Ambient temperature (operational)	-40 °C...+70 °C
Humidity	5...96 % RH
Degree of protection	IP20
Flammability class	V0
Connection data	
Connection	Torx® screw T15 / slot 0.8 x 4
Tightening torque	0.5 Nm
Conductor cross section, flexible, ferrule (DIN 46228-1), max.	4 mm²
Conductor cross section, flexible, ferrule (DIN 46228-1), min.	0.5 mm²
Conductor cross section, solid, max.	6 mm²
Conductor cross section, solid, min.	0.5 mm²
Conductor cross section, stranded, Rated connection, max.	4 mm²
Conductor cross section, stranded, Rated connection, min.	0.5 mm²
Stripping length	10 mm
Mounting rail	TS35
Dimensions	
Length x width x height	88.5 x 6.2x 81 mm

Accessories: Screwdriver: Torx® 9009170000, slotted 9008340000; test plug: PS 2.3 0180400000; EMC SET: 1067470000; marker: WS 10/6 1818400000, DEK 6 0468560000, SNAPMARK 1805880000; end plate: 1063110000

VSSC 6AN RTD

Technical data	RTD
Rated voltage AC/DC	1 V DC
Max. continuous voltage U_c (DC)	5 V DC
Signal transmission properties (-3 dB)	≤ 1 MHz
Pulse reset capacity	≤ 20 ms
Residual voltage U_p	≤ 126 V
wire-wire / wire-PE / GND-PE	15 V / 15 V / -
Protection level on output side sym.	
Input 1 kV/µs, typ.	10 V
Protection level on output side unsym.,	
Input 1 kV/µs, typ.	10 V

Ordering data	
Type	VSSC6 RTD
Order No.	**1139710000**
Qty.	10 pieces
Note	