

Yellow / Line SPDs



The BLITZDUCTORconnect series of combined lightning current and surge arresters features compact design and is designed for universal use and system protection in industrial environments, at information technology signal interfaces, and in automation or measuring and control systems.

With their high lightning current discharge capacity and low voltage protection levels, these lightning current and surge arresters offer reliable protection of terminal equipment.

These arresters are available to protect two single lines sharing a common reference potential (unbalanced interfaces) or one unearthed pair (balanced interface).

Cables are connected using vibration-proof push-in connection technology. Stripped solid or flexible conductors with wire end ferrules can be clamped and contacted quickly, easily and without tools. When rewiring, the conductor is freed from the clamping point simply by pressing the release button and can be reclamped easily. Holes in the housing at each conductor terminal allow measurements of the signal circuit using test probes.



Quickly tested – at a glance Integrated indication for easy and fast maintenance



Connect = Protect
Push-in connection technology for simple and fast cable connection

Features

- · Universal lightning current and surge arrester
- For protecting data bus interfaces as well as measuring and control circuits
- High discharge capacity of 3kA (10/350 μs), 10 kA (8/20 μs)
- Maximum impulse current carrying capability (8/20 μ s) I $_{\text{max}}$ up to 20 kA
- Low voltage protection level, also capable of protecting terminal equipment
- Compact arrester
- Fast and simple cable connection thanks to push-in connection technology
- High system availability thanks to fail-safe performance
- Function-optimized design with a width of 6mm
 - LifeCheck and visual status indication integrated in the module
- Simple remote signaling of status when used with optional remote signaling unit
- Vibration and shock tested for safe operation

The arresters of the BLITZDUCTORconnect series are equipped with a mechanical status indicator which clearly shows the status of the arrester (via a green or red indicator flag). In the event of arrester overload, the arrester or arrester group to be replaced is identified visually (red indicator flag).

The status is reported to a higher-level control system via a floating break contact of the remote signaling unit.

The combination of the transmitter and receiver units into a single device minimizes the wiring effort required when installing the remote signaling unit. At the same time, there is no need for additional setup of the modules.

A defined fail-safe function (fail-open) disconnects the overloaded components (decoupling impedance, fine protection) from the signal circuit. However, the signal circuit itself remains active and is not interrupted. The system circuit remains available, and operation is maintained until the arrester is replaced. In this way, plants and systems can be operated safely and are highly available at all times.



Easy maintenanceSimple status message with monitoring unit for arrester groups



Maximum system availability
Approvals for use in intrinsically safe
measuring circuits



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UL file # E156818, E508234 Displayed as BCO CL2 CSA file # 80066004 Displayed as BCO CL2 SIL up to SIL3 as of October 2019

DEHN BLITZDUCTORconnect Data and Signal Surge Protectors Selection Guide											
Part Number	Price	Protection	SPD Class	Maximum Continuous Operating Voltage (DC) (U _c)	Nominal Current (I _L)	D1 Lightning Impulse Current (10/350 µs) Per Line (I _{imp})	C2 Total Nominal Discharge Current (8/20 µs) (I _n)	Series Resistance Per Line	Cut-Off Frequency Line-Line (fG)	Approvals	Drawing
<u>927910</u>	\$35.50	Two single lines for lightning equipotential bonding, as well as indirect earthing of shielded cables.	Type 1	180V	1.2 A	1.5 kA	10kA	0Ω	150MHz	UL, CSA, ATEX, IECEx, CCC SIL	PDF
927924	\$63.50	Interface/signal 0-20 mA, 4-20 mA (also with HART). Two single lines sharing a common reference potential as well as unbalanced interfaces.	Type 1 (P2 per EN 61000-4-5)	33V	0.75 A	1.5 kA	10kA	1Ω	3.4 MHz	UL, CSA, ATEX, IECEx, CCC SIL	<u>PDF</u>
927944	\$63.50	Interface/signal 4-20 mA (also with HART). One pair of unearthed balanced interfaces.	Type 1 (P2 per EN 61000-4-5)	36V	0.75 A	1.5 kA	10kA	1Ω	5.8 MHz	UL, CSA, ATEX, IECEx, CCC SIL	PDF
<u>927971</u>	\$73.00	One pair of unearthed high- frequency bus systems as well as balanced interfaces	Type 1 (P2 per EN 61000-4-5)	8.5 V	0.75 A	1.5 kA	10kA	1Ω	100MHz	UL, CSA, ATEX, IECEx, CCC SIL	PDF

DEHN BLITZDUCTORconnect Data and Signal Surge Protectors Accessories Selection Guide								
Part Number	Price	Description	Input Voltage Range (DC) (U _M)	Maximum Rated Current Consumption (I _{IN})	Operating Temperature Range (T _u)	Approvals	Drawing	
<u>910710</u>	\$96.00	DEHNrecord condition monitoring unit, DIN rail mounted set with integrated visual transmitter/receiver as well as visual reverse unit for monitoring the condition of BLITZDUCTORconnect arresters with LifeCheck. Visual status indication via LED group display combined with remote signaling (break contact).	6-35 VDC	≤10mA	-30°C to 70°C [-22°F to 158°F]	UL, ATEX, IECEx	PDF	



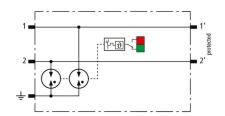


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927910

Space-saving, compact lightning current arrester with a width of 6mm [0.24 in] and push-in connection technology with status indication for protecting two single lines for lightning equipotential bonding as well as indirect grounding of shielded cables.



DEHN BLITZDUCTORconnect 927910 Data and Sign	nal Surge Protector Specifications		
SPD Class	Type 1		
Impulse Category	D1, C2, C3		
Nominal Voltage (U _N)	180V		
Max. Continuous Operating Voltage (DC) (U_c)	180V		
Max. Continuous Operating Voltage (AC) (U_c)	127V		
Nominal Current (I _L)	1.2 A		
D1 Total Lightning Impulse Current (10/350 μs) (I _{imp})	3kA		
D1 Lightning Impulse Current (10/350 μs) per line (I _{imp})	1.5 kA		
C2 Total Nominal Discharge Current (8/20 µs) (I _n)	10kA		
C2 Nominal Discharge Current (8/20 µs) per line (In)	5kA		
Voltage Protection Line-Line for I _n C2 (U _p)	≤1100V		
Voltage Protection Level Line-PG for In C2 (U _p)	≤800V		
Voltage Protection Level Line-Line for 1 kV/µs C3 (U,)	≤950V		
Voltage Protection Level Line-PG for 1 kV/µs (U)	≤700V		
Series Resistance Per Line	0Ω		
Cut-off Frequency Line-Line at 100 ohms (f _G)	150MHz		
Capacitance Line-Line (C)	≤10pF		
Capacitance Line-PG (C)	≤13pF		
Operating Temperature Range (T_v)	-40°C to 80°C [-40°F to 176°F]		
Operating State / Fault Indication	Green/red		
Degree of Protection	IP20		
For Mounting On	35mm DIN rails acc. to EN 60715		
Connection (Input / Output)	Push-in / push-in		
Cross-Sectional Area, Solid	0.2-2.5 mm² (24 - 14 AWG)		
Cross-Sectional Area, Flexible	0.2-2.5 mm² (24 - 14 AWG)		
Grounding Via	35mm DIN rails acc. to EN 60715		
Enclosure Material	Polyamide PA 6.6		
Color	Yellow		
Test Standards	IEC 61643-21 / EN 61643-21		
Approvals	UL, CSA, ATEX, IECEx, CCC, SIL UL file # E156818 Displayed as BCO CL2 CSA file # 80066004 Displayed as BCO CL2 SIL (up to SIL3) as of October 2019		
ATEX Approvals	TÜV 20 ATEX 8527 X: II 3G Ex ec IIC T4 Gc		
ICECx Approvals	IECEx TUR 20.0063X: Ex ec IIC T4 Gc		
China Compulsory Certification	CCC no. 2021312304001192		
Discharge Current (8/20 μs) [1/2-PG], [1+2 - PG]	10kA (10x)		
Voltage Protection Level Line-PG at 1 kV/ μ s C3 After Being Subjected to I_{max} (U_p)	≤700V		
Weight	33g [1.16 oz]		

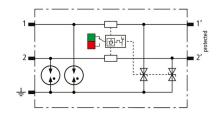


Yellow / Line SPDs



927924

Space-saving, compact combined arrester with a width of 6mm [0.24 in] and push-in connection technology with status indication for protecting two single lines sharing a common reference potential as well as unbalanced interfaces.



DEHN BLITZDUCTORconnect 927924 Data and Signal Surge Protector Specifications				
SPD Class	Type 1 P1			
Impulse Category	D1, C1, C2, C3, B2			
Nominal Voltage (U _N)	24V			
Max. Continuous Operating Voltage (DC) (U _c)	33V			
Max. Continuous Operating Voltage (AC) (U _c)	23.3 V			
Nominal Current (I,)	0.75 A			
D1 Total Lightning Impulse Current (10/350 μs) (I _{imp})	3kA			
D1 Lightning Impulse Current (10/350 μs) per line (I _{imp})	1.5 kA			
C2 Total Nominal Discharge Current (8/20 µs) (I _p)	10kA			
C2 Nominal Discharge Current (8/20 µs) per line (I _n)	5kA			
Voltage Protection Line-Line for I _n C2 (U _n)	≤90V			
Voltage Protection Level Line-PG for I _n C2 (U _n)	≤75V			
Voltage Protection Level Line-Line for I _n C1 (U _n)	≤90V			
Voltage Protection Level Line-PG for I _n C1 (U _n)	≤75V			
Voltage Protection Level Line-Line for 1kV/ μs C3 (U _n)	≤85V			
Voltage Protection Level Line-PG for 1kV/ µs (U,)	≤45V			
Series Resistance Per Line	1Ω			
Cut-off Frequency Line-Line (f _c)	3.4 MHz			
Capacitance Line-Line (C)	≤1nF			
Capacitance Line-PG (C)	≤2nF			
Operating Temperature Range (T _u)	-40°C to 80°C [-40°F to 176°F]			
Operating State / Fault Indication	Green/red			
Degree of Protection	IP20			
For Mounting On	35mm DIN rails acc. to EN 60715			
Connection (Input / Output)	Push-in / push-in			
Cross-Sectional Area, Solid	0.2-2.5 mm² (24 - 14 AWG)			
Cross-Sectional Area, Flexible	0.2-2.5 mm² (24 - 14 AWG)			
Grounding Via	35mm DIN rails acc. to EN 60715			
Enclosure Material	Polyamide PA 6.6			
Color	Yellow			
Test Standards	IEC 61643-21 / EN 61643-21			
Approvals	UL, CSA, ATEX, IECEx, CCC, SIL UL file # E156818 Displayed as BCO CL2 CSA file # 80066004 Displayed as BCO CL2 SIL (up to SIL3) as of October 2019			
ATEX Approvals	TÜV 20 ATEX 8527 X: II 3G Ex ec IIC T4 Gc			
ICECx Approvals	IECEx TUR 20.0063X: Ex ec IIC T4 Gc			
China Compulsory Certification	CCC no. 2021312304001192			
Maximum Discharge Current (8/20 μs) [1/2-PG], [1+2 - PG] (I _{max})	20kA			
Discharge Current (8/20 μs) [1/2-PG], [1+2 - PG]	10kA (10x)			
Voltage Protection Level Line-PG at 1 kV/ μ s C3 After Being Subjected to $I_{max}(U_p)$	≤45V			
Weight	33g [1.16 oz]			

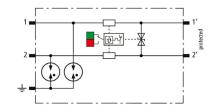


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927944

Space-saving, compact combined arrester with a width of 6mm [0.24 in] and push-in connection technology with status indication for protecting one pair of ungrounded balanced interfaces.



DEHN BLITZDUCTORconnect 927944 Data and Signal Surge Protector Specifications				
SPD Class	Type 1 P2			
Impulse Category	D1, C1, C2, C3, B2			
Nominal Voltage (U _N)	24V			
Max. Continuous Operating Voltage (DC) (U_c)	36V			
Max. Continuous Operating Voltage (AC) (U _c)	25.4 V			
Nominal Current at 70°C (I _L)	0.75 A			
D1 Total Lightning Impulse Current (10/350 μs) (I _{imp})	3kA			
D1 Lightning Impulse Current (10/350 μs) per line (I _{imp})	1.5 kA			
C2 Total Nominal Discharge Current (8/20 μs) (I _n)	10kA			
C2 Nominal Discharge Current (8/20 μs) per line (I _n)	5kA			
Voltage Protection Line-Line for I _n C2 (U _n)	≤57V			
Voltage Protection Level Line-PG for I _n C2 (U _p)	≤600V			
Voltage Protection Level Line-Line for I _n C1 (U _p)	≤57V			
Voltage Protection Level Line-PG for I C1 (U)	≤600V			
Voltage Protection Level Line-Line for 1kV/μs C3 (U _p)	≤46V			
Voltage Protection Level Line-PG for 1kV/μs (U _p)	≤600V			
Series Resistance Per Line	1Ω			
Cut-off Frequency Line-Line (f _G)	5.8 MHz			
Capacitance Line-Line (C)	≤1.5 nF			
Capacitance Line-PG (C)	≤16pF			
Operating Temperature Range (T _U)	-40°C to 80°C [-40°F to 176°F]			
Operating State / Fault Indication	Green/red			
Degree of Protection	IP20			
For Mounting On	35mm DIN rails acc. to EN 60715			
Connection (Input / Output)	Push-in / push-in			
Cross-Sectional Area, Solid	0.2-2.5 mm ² (24-14 AWG)			
Cross-Sectional Area, Flexible	0.2-2.5 mm ² (24-14 AWG)			
Grounding Via	35mm DIN rails acc. to EN 60715			
Enclosure Material	Polyamide PA 6.6			
Color	Yellow			
Test Standards	IEC 61643-21 / EN 61643-21			
Approvals	UL, CSA, ATEX, IECEx, CCC, SIL UL file # E156818 Displayed as BCO CL2 CSA file # 80066004 Displayed as BCO CL2 SIL (up to SIL3) as of October 2019			
ATEX Approvals	TÜV 20 ATEX 8527 X: II 3G Ex ec IIC T4 Gc			
ICECx Approvals	IECEx TUR 20.0063X: Ex ec IIC T4 Gc			
China Compulsory Certification	CCC no. 2021312304001192			
Maximum Discharge Current (8/20 μs) [1/2-PG], [1+2 - PG] (I _{max})	20kA			
Discharge Current (8/20 μs) [1/2-PG], [1+2 - PG]	10kA (10x)			
Voltage Protection Level Line-PG at 1 kV/ μ s C3 After Being Subjected to I_{max} (U_p)	≤600V			
Weight	33g [1.16 oz]			

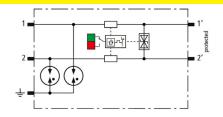


Yellow / Line SPDs



927971

Space-saving, compact combined arrester with a width of 6mm [0.24 in] and push-in connection technology with status indication for protecting one pair of ungrounded high-frequency bus systems as well as balanced interfaces.



DEHN BLITZDUCTORconnect 927971 Data and Sign	nal Surge Protector Specifications		
SPD Class	Type 1 P2		
Impulse Category	D1, C1, C2, C3, B2		
Nominal Voltage (U _N)	5V		
Max. Continuous Operating Voltage (DC) (U _c)	8.5 V		
Max. Continuous Operating Voltage (AC) (U _c)	6.0 V		
Nominal Current at 70°C (I,)	0.75 A		
D1 Total Lightning Impulse Current (10/350 μs) (I _{imp})	3kA		
D1 Lightning Impulse Current (10/350 μs) per line (I _{imp})	1.5 kA		
C2 Total Nominal Discharge Current (8/20 µs) (I _n)	10kA		
C2 Nominal Discharge Current (8/20 µs) per line (I _n)	5kA		
Voltage Protection Line-Line for I _n C2 (U _n)	≤42V		
Voltage Protection Level Line-PG for I _n C2 (U _p)	≤600V		
Voltage Protection Level Line-Line for I _n C1 (U _p)	≤42V		
Voltage Protection Level Line-PG for I _n C1 (U _n)	≤600V		
Voltage Protection Level Line-Line for 1kV/μs C3 (U _n)	≤15V		
Voltage Protection Level Line-PG for 1kV/μs (U _p)	≤600V		
Series Resistance Per Line	1Ω		
Cut-off Frequency Line-Line (f _G)	100MHz		
Capacitance Line-Line (C)	≤21pF		
Capacitance Line-PG (C)	≤15pF		
Operating Temperature Range (T_u)	-40°C to 80°C [-40°F to 176°F]		
Operating State / Fault Indication	Green/red		
Degree of Protection	IP20		
For Mounting On	35mm DIN rails acc. to EN 60715		
Connection (Input / Output)	Push-in / push-in		
Cross-Sectional Area, Solid	0.2-2.5 mm ² (24-14 AWG)		
Cross-Sectional Area, Flexible	0.2-2.5 mm ² (24-14 AWG)		
Grounding Via	35mm DIN rails acc. to EN 60715		
Enclosure Material	Polyamide PA 6.6		
Color	Yellow		
Test Standards	IEC 61643-21 / EN 61643-21		
Approvals	UL, CSA, ATEX, IECEx, CCC, SIL UL file # E156818 Displayed as BCO CL2 CSA file # 80066004 Displayed as BCO CL2 SIL (up to SIL3) as of October 2019		
ATEX Approvals	TÜV 20 ATEX 8527 X: II 3G Ex ec IIC T4 Gc		
ICECx Approvals	IECEx TUR 20.0063X: Ex ec IIC T4 Gc		
China Compulsory Certification	CCC no. 2021312304001192		
Maximum Discharge Current (8/20 μs) [1/2-PG], [1+2 - PG] (I _{max})	20kA		
Discharge Current (8/20 μs) [1/2-PG], [1+2 - PG]	10kA (10x)		
Voltage Protection Level Line-PG at 1 kV/ μ s C3 After Being Subjected to $I_{max}(U_p)$	≤600V		
Weight	33g [1.16 oz]		

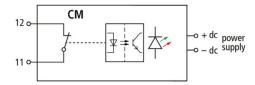


Yellow / Line SPDs



910710

Condition monitoring unit DEHNrecord, set for DIN rail mounted devices with integrated visual transmitter/receiver and visual reverse unit for monitoring the condition of BLITZDUCTORconnect arresters with LifeCheck. Visual status indication via LED group display in combination with remote signaling contact (break contact).



DEHN BLITZDUCTORconnect 910710 Surge Protector Monitoring System Specifications				
Input Voltage Range (DC) (U _{IN})	6-35 VDC			
Maximum Rated Current Consumption (I _{IN})	≤10mA			
Distance Between Transmitter/Receiver and Reverse Unit (Max)	≤305mm [12in]			
Message: Replacing of SPD Recommended	LED, remote signaling contact (break contact)			
Indicator	Two-color LED (green, red)			
Type of Remote Signaling Contact	Break contact (NC)			
Technical Data for Remote Signaling Contact	Contact resistance < 2.5Ω; leakage current < 1μA			
Switching Capacity (DC)	48V; 500mA, P _{max} 300mW			
Test Cycle	Continuous			
Operating Temperature Range $(T_{_{\!U}})$	-40°C to 80°C [-40°F to 176°F]			
Degree of Protection	IP20			
For Mounting On	35mm DIN rails acc. to EN 60715			
Connection (Input / Output)	Push-in / push-in			
Cross-Sectional Area, Solid	0.2-2.5 mm ² (24-14 AWG)			
Cross-Sectional Area, Flexible	0.2-2.5 mm ² (24-14 AWG)			
Enclosure Material	Polyamide PA 6.6			
Color	Gray			
Test Standards	EN 61010-1			
Approvals	CSA, UL UL file # E508234 CSA file # 80066004 Displayed as BCO CL2			
Package Includes	Transmitter-receiver unit / reverse unit			
Weight	52g [1.83 oz]			

