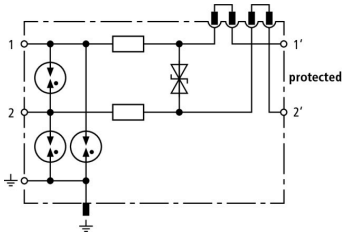
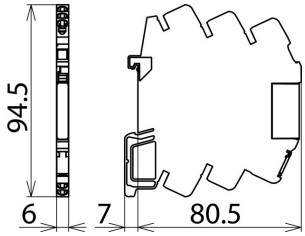
DCO SD2 MD EX 24 (917 960)

- For universal use in Ex(i) circuits
- Disconnection module for disconnecting signal circuits for maintenance work
- For installation in conformity with the lightning protection zone concept at the boundaries from 0_B –2 and higher

Figure without obligation



Basic circuit diagram DCO SD2 MD EX 24



Dimension drawing DCO SD2 MD EX 24

Surge arrester with energy-coordinated low-capacitance protective circuit and disconnection module for disconnecting signal circuits. For protecting one pair in intrinsically safe measuring circuits and bus systems, meets FISCO requirements. Self-capacitance and self-inductance negligibly small. Insulation strength > 500 V to earth.

Type Part No.	DCO SD2 MD EX 24 917 960
SPD class	TYPE 2 P1
Nominal voltage (U_N)	24 V
Max. continuous operating voltage (d.c.) (U_C)	33 V
Max. continuous operating voltage (a.c.) (U_C)	23 V
Max. input voltage according to EN 60079-11 (U_i)	30 V
Max. input current according to EN 60079-11 (I_i)	0.5 A
Nominal current at 80 °C (I_L)	0.5 A
D1 Lightning impulse current (10/350 µs) per line (I_{imp})	1 kA
C2 Total nominal discharge current (8/20 µs) (I_n)	10 kA
C2 Nominal discharge current (8/20 µs) per line (I_n)	5 kA
Voltage protection level line-line for I_n C2 (U_p)	≤ 50 V
Voltage protection level line-PG for I_n C2 (U_p)	≤ 1500 V
Voltage protection level line-line at 1 kV/µs C3 (U_p)	≤ 45 V
Voltage protection level line-PG at 1 kV/µs C3 (U_P)	≤ 1400 V
Series resistance per line	1.8 ohms
Cut-off frequency line-line (f_G)	5.8 MHz
Capacitance line-line (C)	≤ 1.0 nF
Capacitance line-PG (C)	≤ 8 pF
Operating temperature range	-40 °C ... +80 °C
Degree of protection	IP 00
For mounting on	35 mm DIN rails acc. to EN 60715
Connection (input / output)	spring / spring
Cross-sectional area (solid)	0.34-2.5 mm²
Cross-sectional area (flexible)	0.34-2.5 mm²
Earthing via	DIN rail / terminal
Enclosure material	polyamide PA 6.6
Colour	blue
Test standards	IEC 61643-21 / EN 61643-21
Approvals	UL, CSA, EACEx, ATEX, IECEx, CSA & USA Hazloc, SIL
SIL classification	up to SIL3 *)
ATEX approvals	DEKRA 12ATEX0261 X: II 2(1) G Ex ia [ia Ga] IIC T4,T5,T6 Gb
IECEx approvals	DEK 12.0076X: Ex ia [ia Ga] IIC T4...T6 Gb
CSA & USA Hazloc approvals (1)	70111035: Class I Div. 1; Class I Zone 1
CSA & USA Hazloc approvals (2)	70111035: AEx ia [ia] IIC T4 ... T6
Extended technical data:	- - - - - - - - - - - - - - - - - - - -
– Max. discharge current (8/20 µs) [1/2 - PG], [1+2 - PG] (I_{max})	20 kA
– Voltage protection level line-PG at 1 kV/µs C3 after being subjected to I_{max} (U_p)	≤ 1400 V
Weight	32 g
Customs tariff number	85363010
GTIN	4013364150638
PU	1 Stk

*) For more detailed information, please visit www.dehn-international.com.