

DATEC DATA LINE PROTECTOR



DATEC

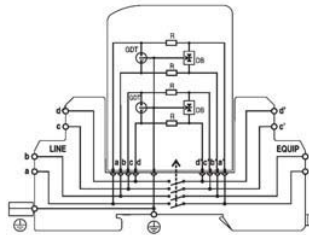
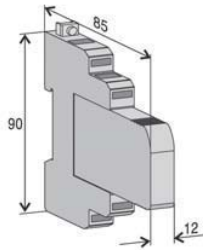
SCHRACK INFO

The Datec data line protector is used for data lines such as bus cables, control lines, etc. Since the module can be replaced without interruption (the contacts are closed before the module is contactless), the Datec is also suitable for protection of signal processing inputs (equipment). This solution includes a 12 mm wide module and two protection paths. Through direct contact with an earthed DIN rail, no extra earthing line is required to the module.

TECHNICAL DATA

	IS212405--	IS212412--	IS212424--	IS212430--
Description	DATEC DMOD5V	DATEC DMOD12V	DATEC DMOD24V	DATEC DMOD30V
Validated according to	Test class III IEC61643-21			
Number of protected circuits	2x2 (4 wires)			
Nominal voltage U_n	5 V _{DC}	12 V _{DC}	24 V _{DC}	30 V _{DC}
Max. continuous voltage U_c	7 V _{DC}	15 V _{DC}	28 V _{DC}	33 V _{DC}
Ignition voltage range (a/b-PG)(a-b)	8 - 10 V	17 - 21 V	31 - 37 V	36 - 44 V
Nominal current I_n at 25°C	1 A			
Nominal discharge current I_n (8/20)	10 kA			
Max. discharge current I_{max} (8/20)	20 kA			
Residual voltage U_{res} at 5 kA (8/20)	≤22 V	≤42 V	≤70 V	≤80 V
Response time t_A	≤1 ns			
Thermal separator	Thermo clip			
Insulation resistance	≥5kΩ / 5 V _{DC}	≥12MΩ / 12 V _{DC}	≥24MΩ / 24 V _{DC}	≥30MΩ / 30 V _{DC}
Serial impedance R	1.6 - 2,0Ω			
Transverse capacitance C	50 pF			
Cutoff frequency f _G	30 MHz			
Terminal cross-section	4 mm ² (finely stranded)			
Degree of protection	IP20			
Housing material	Thermoplastic V-0			
Mounting	35 mm DIN rail			
Dimensions	95 x 90 x 12			

DIMENSIONS AND CIRCUIT DIAGRAMS



DESCRIPTION	MW	ARRESTER CLASS	U _c	EAN CODE	AVAILABLE	ORDER NO.
DATEC bus arrester 5 V DC 1 A, 12 mm	0.5	TII (D)	7 V DC	9004840585926		IS212405
DATEC bus arrester 12 V DC 1 A, 12 mm	0.5	TIII (D)	15 V DC	9004840585933		IS212412
DATEC bus arrester 24 V DC 1 A, 12 mm	0.5	TIII (D)	28 VDC	9004840585940		IS212424
DATEC bus arrester 30 V DC 1 A, 12 mm	0.5	TIII (D)	33 VDC	9004840585957		IS212430



DATEC DATA LINE PROTECTOR – F-PORT, TV-PORT (MF)



DATEC

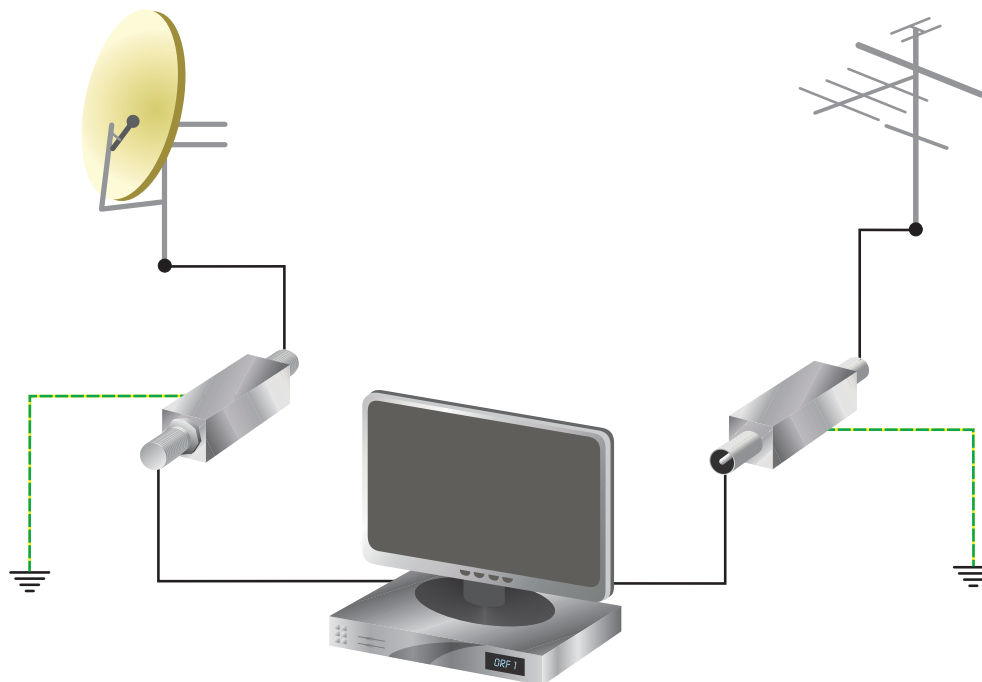
SCHRACK INFO

Just as power lines, all the data lines need to be protected as well. They are also at risk to carry overvoltages and that may destroy electronic devices. Application areas: Lines from TV aerials or satellite dishes to TV set and receiver station.

TECHNICAL DATA

	IS211405--	IS210242--
Description	DATEC IEC	DATEC F
Validated according to	Test class III IEC/EN 61643-21	
Coaxial connection	IEC (Connection) 75 Ω	F (Connection) 75 Ω
Insertion loss (47 – 860 MHz)	<0.5 dB	
Maximum continuous voltage	48 V _{AC} / 60 V _{DC}	
Nominal discharge current I _n (8/20)	5 kA	
Protection level at I _n	≤550 V	
Response time	<5 ns	

CONNECTION DIAGRAM



DESCRIPTION	ARRESTER CLASS	U _c	EAN CODE	AVAILABLE	ORDER NO.
DATEC coaxial F connector 75 Ω	TIII (D)	60 V DC	9004840585896		IS210424
DATEC coaxial IEC connector 75 Ω	TIII (D)	60 V DC	9004840585902		IS211405

