

### DK1-48

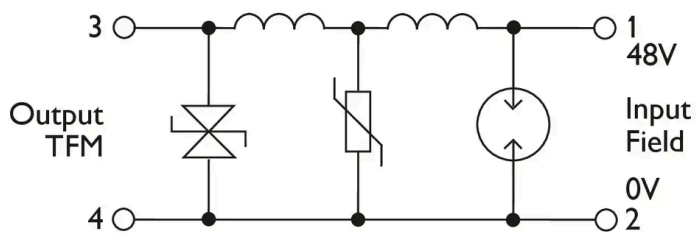
#### SSI system protector

The DK1-48 is a surge protection product specifically designed to replace the obsolete Weidmuller DKU-48V SPD. This DKU device has been used for decades to protect the BXE and NXE circuits of the British Rail designed SSI system TFM's, but is no longer produced. The DK1-48 has been designed using components as closely matching the original unit in specifications as possible.

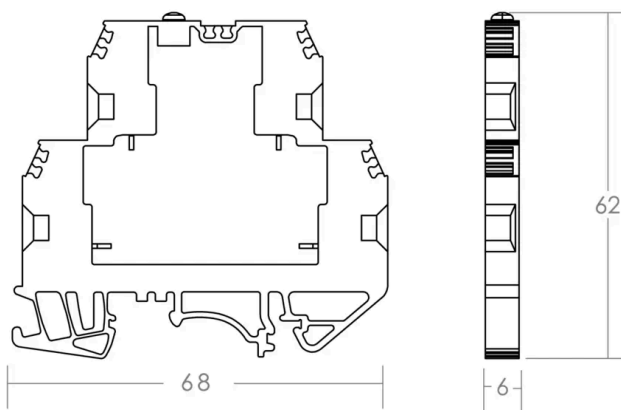


Image for illustrative purposes only

#### Wiring




#### Dimensions











## Product Datasheet

### Electrical Specifications

Connection type		Series
Maximum continuous voltage (DC)	$U_c$	60V
Volume resistance T1-3		<1.4 $\Omega$
Rated current per path		0.13A
Inductance of 4 pole network Li		160 $\mu$ H
Capacitance of 4 pole network Ci		1nF
Source impedance frequency response at 50 $\Omega$ /-3dB		1,000kHz at Ri=480 $\Omega$
$\Delta T$ at 0.3A and 30°C ambient temperature		4°C
Sparkover voltage of gas discharge tube @ 1 kV/ $\mu$ s		<700V
Interference voltage at output @ 1 kV/ $\mu$ s		82V
Interference voltage at output @ 8/20 $\mu$ s 3kA		83V
Max leakage current to PE		10 $\mu$ A
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	20kA

### Mechanical Specifications

Circuit earthed		yes
Fire rating		UL94 Cat V0
Minimum operating temperature		-25°C
Maximum operating temperature		70°C
Mounting method		Universal TS32 and TS35 rail
Environmental rating		IP20
Enclosure material		PA66
Terminals		Steel screw cage clamp with slotted head
Length		68mm
Width		6mm
Height		62mm

### Standard Specifications

ATEX		II 2 G EEx ia IIC
RoHS		Not compliant, the unit utilises Tin/Lead solder

### Shipping Specifications

Weight		24g
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### Other Specifications

Product Code		DK1-48
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