

AXON Video IP Protector PoE AXON PRO Video IP Protector PoE AXON Video IP Protector PoE 4

Multichannel surge protection
of digital video monitoring systems, remote PoE devices



The **AXON Video IP Protector PoE** family of products is designed to protect against surges the 10/100 Mbps Ethernet equipment, particularly IP cameras remotely powered via PoE technology i.e. through unused pairs of wires in the transmission cable. Depending on the version, it has one or four independent channels to protect the signal lines and power the camera with one device. The **AXON Video IP Protector PoE** contains two channels – data transmission lines (lines 1-2, 3-6) and power supply lines (lines 4+5, 7+8). Both of them are protected by surge arresters, which discharge the surge energy to the earth and also protect against overvoltages between the lines. In order to increase the load capacity of the power line, the line 4 is shorted out with the line 5, as well as the line 7 with the line 8.

The **AXON Video IP Protector PoE** family of products is available in three versions, allowing you to customize your device to suit your needs. The single- and four-channel versions have a metal housing that guarantees high resistance to various mechanical exposures and provides shielding of the entire protective circuit while the plastic housing, single-channel version retains most of the features of the metal version at a lower unit cost.

Common specifications:

	Data side (pairs 1-2, 3-6):
Nominal voltage U_N	5V
Maximum voltage U_C	6V
Level of protection U_P (line-line)	$\leq 40V - 1kV/\mu s, C3$
Level of protection U_P (line-earthing)	$\leq 600V - 1kV/\mu s, C3$
Nominal discharge current i_N (line-line)	20A – 10/1000 $\mu s, C3$
Nominal discharge current i_N (line-earthing)	20A – 10/1000 $\mu s, C3$
	Power side (line 4, 5 & 7, 8):
Nominal voltage U_N	50V
Maximum voltage U_C	56V
Rated current I_N	400mA
Level of protection U_P (line-line)	$\leq 95V - 1kV/\mu s, C3$
Level of protection U_P (line-earthing)	$\leq 1000V - 1.2/50\mu s, C2$
Nominal discharge current i_N (line-line)	10A – 10/1000 $\mu s, C3$
Nominal discharge current i_N (line-earthing)	2kA – 8/20 $\mu s, C2$
Standards	EN 61643-21

Specifications only for AXON Video IP Protector PoE

Dimensions	66x60x30mm + 0.3m earthing wire
Housing / Weight	plastic / 0.08kg
Number of channels / Type of sockets	1 / RJ45 (8P8C)

Specifications only for AXON PRO Video IP Protector PoE

Dimensions	70(95)x50x30mm + 0.3m earthing wire
Housing / Weight	metal, powder coated / 0.16kg
Number of channels / Type of sockets	1 / RJ45 (8P8C) shielded

Specifications only for AXON Video IP Protector PoE 4

Dimensions	167x50x32mm + 0.5m earthing wire
Housing / Weight	metal, powder coated / 0.4kg
Number of channels / Type of sockets	4 / RJ45 (8P8C) shielded

The manufacturer reserves the right to change the technical parameters of the device, resulting from technological progress.
NOTE! Specifications define the maximum values of voltage spikes, against which the device is protected.