

Overvoltage Protection Unit

AD-ÜSE

Description

The overvoltage-protection unit are built up in very sturdy aluminium, die-cast housings of protection type IP-65, and can protect up to 4 analogue signal wires or 2 power leads directly on site.

The two stage protection unit (coarse and fine protection) reacts very quickly and can shunt high currents. Limitation of the quadrature-axis component of the voltage, blow-out fuse and series inductance can be integrated as an option.

Application

For protection up to 4 independent analogue signal wires against steep and energy rich overvoltage peaks. In the sturdy IP-65 housing for application locations with extreme weather conditions.



Specification (each wire)

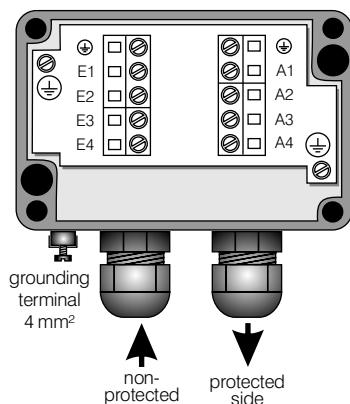
Construction type:	sturdy aluminium die-cast housing
Type of protection:	IP-65 (with screw joint PG 16)
max. number of wires:	4 signal-wires resp. 2 main-wire
Rated voltage:	22V / 30V / 48V
Protection voltage:	24V / 33V / 50V (others on request)
Limitation of the quadrature-axis component of the voltage: (only with ÜSE 3x-xx)	24V / 33V / 50V (others on request)
Series resistance:	22 Ohm (1%) per wire
Max. nominal current:	100mA (with option L: 1A)
Discharge current (8/20):	10 kA
Reaction time:	<0,1 ns
Option "L":	series inductance 40µH instead of series resistance. (With higher series currents)
Option "S":	integral blow-out fuse for each wire
Option "D":	integral filter for pressure compensation

Notes on installation

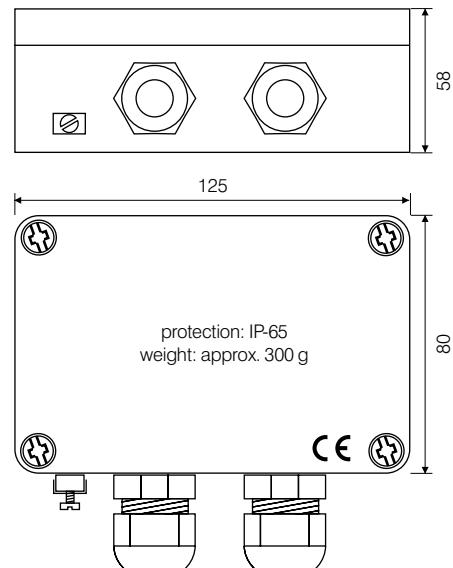
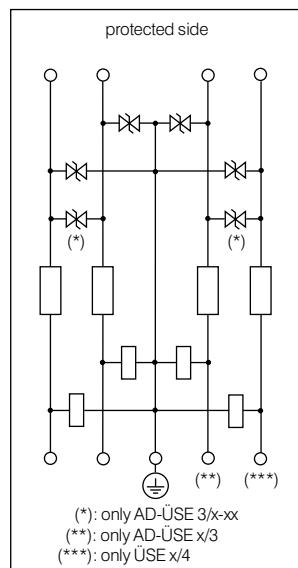
- Input side is there, where the overvoltage is expected.
Output side points to the units to be protected.
- The earth connection must be connected directly to the marked terminal
- Capacitive and inductive couplings are to be avoided, i.e. do not lay out any unprotected leads next to protected leads

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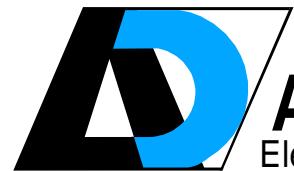
Connection and dimensions: AD-ÜSE 2 / AD-ÜSE 3



Connection data:
fine-wire: 4,0 mm²
single-wire: 4,0 mm²
screw connect: PG16
mounting hole: 113x52mm, M4



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Article report of overvoltage protection unit AD-ÜSE

ÜSE	protection voltage (*)	type description	with limiting of the quadrature-axis component of the voltage	with integrated micro-fuse	with limiting of the quadrature-axis component of the voltage and micro-fuse
signal-line-protection for 2-wire system	protection level 24V	AD-ÜSE 2/2-24	AD-ÜSE 3/2-24	AD-ÜSE 2/2-24-S	AD-ÜSE 3/2-24-S
	protection level 33V	AD-ÜSE 2/2-33	AD-ÜSE 3/2-33	AD-ÜSE 2/2-33-S	AD-ÜSE 3/2-33-S
	protection level 50V	AD-ÜSE 2/2-50	AD-ÜSE 3/2-50	AD-ÜSE 2/2-50-S	AD-ÜSE 3/2-50-S
signal-line-protection for 3-wire system	protection level 24V	AD-ÜSE 2/3-24	AD-ÜSE 3/3-24	AD-ÜSE 2/3-24-S	AD-ÜSE 3/3-24-S
	protection level 33V	AD-ÜSE 2/3-33	AD-ÜSE 3/3-33	AD-ÜSE 2/3-33-S	AD-ÜSE 3/3-33-S
	protection level 50V	AD-ÜSE 2/3-50	AD-ÜSE 3/3-50	AD-ÜSE 2/3-50-S	AD-ÜSE 3/3-50-S
signal-line-protection for 4-wire system	protection level 24V	AD-ÜSE 2/4-24	AD-ÜSE 3/4-24	AD-ÜSE 2/4-24-S	AD-ÜSE 3/4-24-S
	protection level 33V	AD-ÜSE 2/4-33	AD-ÜSE 3/4-33	AD-ÜSE 2/4-33-S	AD-ÜSE 3/4-33-S
	protection level 50V	AD-ÜSE 2/4-50	AD-ÜSE 3/4-50	AD-ÜSE 2/4-50-S	AD-ÜSE 3/4-50-S
DC main-line protection	protection level 24V	AD-ÜSE 2/24-L	AD-ÜSE 2/24-L	AD-ÜSE 2/24-L-S	AD-ÜSE 2/24-L-S
	protection level 48V	AD-ÜSE 2/48-L	AD-ÜSE 2/48-L	AD-ÜSE 2/48-L-S	AD-ÜSE 2/48-L-S
	protection level 60V	AD-ÜSE 2/60-L	AD-ÜSE 2/60-L	AD-ÜSE 2/60-L-S	AD-ÜSE 2/60-L-S
AC main-line protection	protection level 230V	AD-ÜSE 230			

(*) other protection-voltage from 5-90 V possible



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