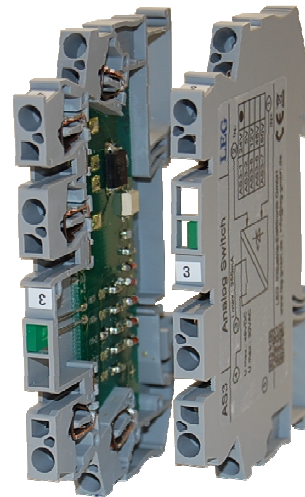


Analog Switch / Solid-State-Relay / Optocoupler

AS3

Characteristics:

- Switching AC / DC voltage
- 1 NC contact
- Input voltage 5V, 12V, 24V, 48V, 60VDC
- Transmission frequency max. 100Hz
- Output 0...48VDC / 0...30VAC - 350mA
- Status display
- Switching time 100µs / 900µs
- Mountable on cap rail TS35
- Tension spring connection
- Shape 6,2mm
- High reliability, 5 years warranty



Description:

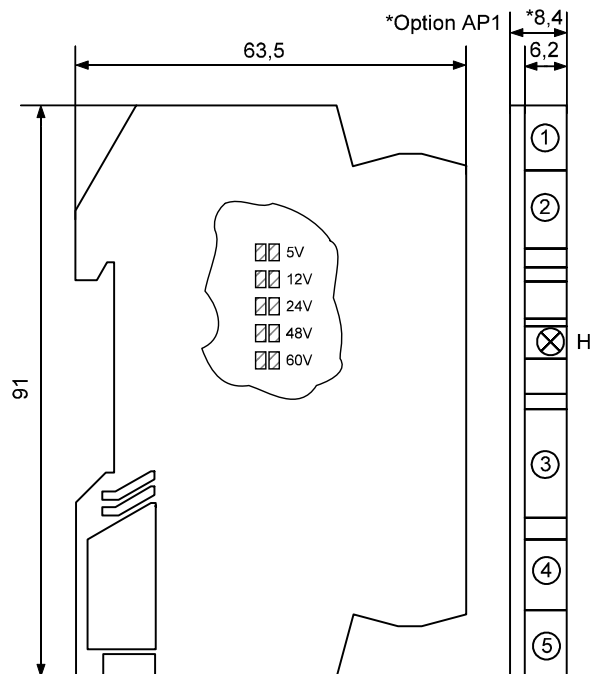
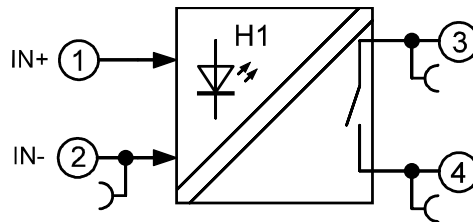
The devices of the analog switch series AS3 supply a no wear switch contact to the user, which is suitable for switching DC or AC signals in the range of 0...48VDC (30VAC) with a maximum load of 350mA. The drive shall be effected, depending on the device, with a direct voltage in the range of 5 to 60V DC. This can even be chosen, via soldering jumper, in the module by the user. It also can be ordered pre-configured by using our order code.

Application:

Switching of analog and control signals
Compensation for mechanical relays
Galvanic isolation of switch signals

Order Code:

	Input:	Output:
AS3-0	configurable	0...48 VDC / 0...30VAC - 350mA
AS3-1	24 V DC	0...48 VDC / 0...30VAC - 350mA
AS3-2	5 V DC	0...48 VDC / 0...30VAC - 350mA
AS3-5	12 V DC	0...48 VDC / 0...30VAC - 350mA
AS3-6	48 V DC	0...48 VDC / 0...30VAC - 350mA
AS3-7	60 V DC	0...48 VDC / 0...30VAC - 350mA



Dimension drawing and soldering jumpers

Technical data:

Inputs:

		Nominal voltage	Low	High
AS3-1	: 18... 30 VDC / 1... 9 mA / $U_N = 24 \text{ VDC}$		< 12 V	> 10 V
AS3-2	: 3, 5... 6 VDC / 1... 7, 5 mA / $U_N = 5 \text{ VDC}$		< 2 V	> 3, 5 V
AS3-5	: 10... 15 VDC / 1... 8, 5 mA / $U_N = 12 \text{ VDC}$		< 5 V	> 10 V
AS3-6	: 40... 60 VDC / 1, 5...8 mA / $U_N = 48 \text{ VDC}$		< 25 V	> 40 V
AS3-7	: 50... 72 VDC / 1, 5...8 mA / $U_N = 60 \text{ VDC}$		< 35 V	> 50 V

Outputs:

Contact	: N.O.
Switching voltage	: 0...48 VDC / 0...30 VAC
Switching current	: max. 350mA
Contact resistance	: Type 1 Ω / max. 2 Ω
Leak current	: < 1 μ A (with applied switching voltage 48VDC)
Switching times	: Typical: $t_{on} < 0,9\text{ms}$, $t_{off} < 0,1\text{ms}$ Max: $t_{on} < 2\text{ms}$, $t_{off} < 0,5\text{ms}$
Switching frequency	: max. 100 Hz
Switching cycles	: unlimited
Overvoltage protection	: Voltage suppressor > 50V
Short circuit proof	: no

General data:

Operating temperature	: 0...50°C
Storage temperature	: -25...+85°C, condensation before putting into operation is not allowed
Test voltage	: 2,5kVAC / 50Hz / 60 seconds / between input / output Rated insulation voltage: 300V AC/DC Basic insulation, Surge voltage category 2, pollution degree 2 according to DIN EN61010-1.
MTBF	: 1600 years Mean Time Between Failures according to EN 61709 (SN 29500). Conditions: Stationary operation in clean rooms, average ambient temperature 40°C, operation without forced ventilation
CE conformity	: EN 61326-1, EN 61000-4-2/3*/4/5/6*, EN 61000-6-4 * during measurements are small deviations possible

Body:

Dimension	: See drawing, 6,2mm terminal block body, 6,2x63,5x91mm
Material	: PA 6.6 / V2
Protection category	: IP20, with side cover/end cover plate
Connection	: Spring force connection 0, 2 - 4mm ² , inflexible, 0, 2 – 2,5mm, flexible Contact load with link plugs max. 24A
Mounting position	: As you like / Mountable side by side
Fixing	: Snap-on mounting for norm rail TS35
Weight	: 22g

Note on safety:



Disconnect the power supply before attempting to open the unit.

During the operation of this module it is possible that parts of the module, even there is extra-low voltage, (for example shunt measurement) are under dangerous voltage! Therefore a non-observance of this caution may cause damage of property or physical injury.

Only trained qualified personnel should install or operate the unit. Before installation the qualified personnel should read the documentation and should familiarize themselves with the unit.

If there is visible damage to the body of the unit it should be immediately replaced and not put into operation.



Please ensure that there is a sufficient prevention against electrostatic discharge during installation of the unit.

Installation Information:

Pay attention and make sure the unit is far away from mounted sources that may disturb the device such as magnetic coils, transformers, frequency converters etc.

Wiring advise:

Use only shielded cables. The shield is to be connected extensively to ground. Do not mix power- and signal-wires/cables in the same cable tray.

Limited guarantee:

The LEG Industrie-Elektronik GmbH warranted that the product does not have any material or processing defects in a period of 5 years after date of delivery.

It is up to the choice of LEG to repair or to exchange an inoperative unit.

Subsequent damages or any claim for indemnification above the functionality of the unit are excluded.

This limited warranty is only valid if ...

1. the product was installed and put into operation according to the LEG operation documentation;
2. the technical configuration of the power supply was abided;
3. the product was not used for unintended purposes;
4. there were no unauthorized modifications or manipulations, misuse or repairs without previous agreement from LEG .

Our Terms of Trade are based on the "General Conditions for the supply of products and services of the Electrical and Electronics Industry" including the "Complementary Clause: Extended Reservation of Property" of the ZVEI e.V. (German Association of Electrical Manufacturers).

Miscellaneous:

We expressly reserve the right, without previous notice, to correct errors contained in any data of this information brochure, and to make alterations to the program and technical modifications.