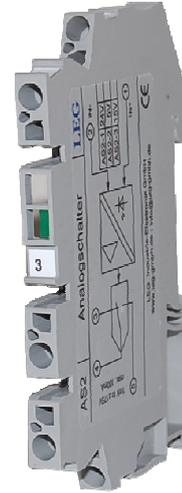


## Analog Switch – Fine-Signal Switch, passive

## AS21

Characteristics:

- Operating without supply voltage
- 1 change over contact
- Contact load +/-1mV...240V/max. 100mA
- Status display in output
- Unlimited switching rates
- Contact resistance typical 26 Ohm
- Mountable on 35mm cap rail TS35
- Stackable via plug-in jumpers
- Shape 6,2mm
- Tension spring connection
- High reliability, 5 years warranty



Description:

The devices of the series AS21 have been developed for contactless switching of very small signals like set values or measured values, but as well to 240V/100mA. A potential isolated optocoupler drives one changeover.

The switch contacts are semiconductors, therefore are unlimited switches possible and load currents of 0...100mA. The control voltage is 5VDC or 24VDC standard. One LED displays the switch condition.

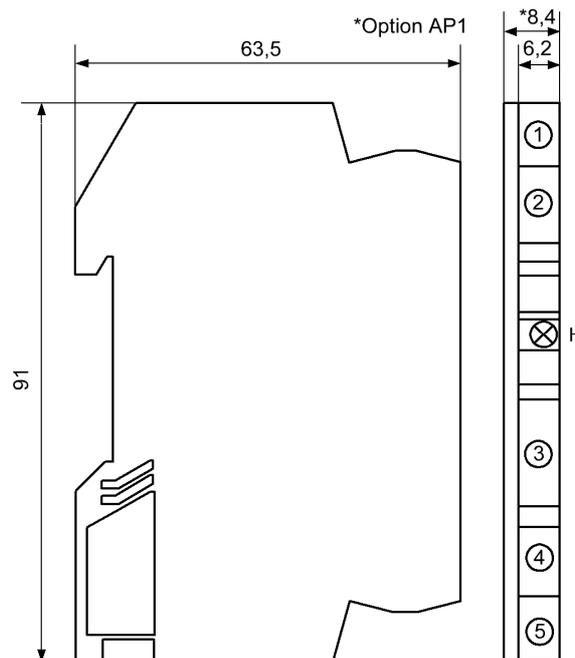
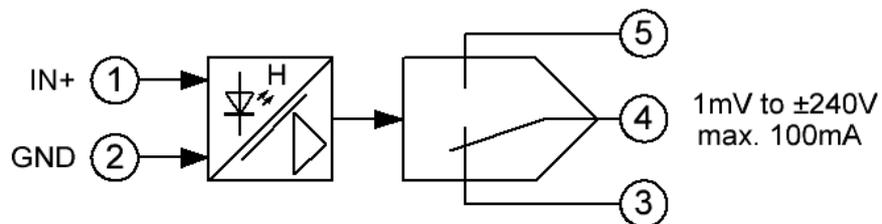
Application:

MSR-technology, process technology, switching very small signals like set values or measured values.

**Order Code:**

Input:

<b>AS21-1</b>	24VDC
<b>AS21-2</b>	5VDC



## Technical data:

### Supply:

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Supply voltage : No

### Driving:

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:	AS21-1	10...30VDC	12...18,5mA
:	AS21-2	4...10VDC	9...19mA

### Outputs:

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Voltage	:	Max. 240V AC /DC	
Current	:	0...100mA	
Response time	:	Typical < 0,1ms	
Release time	:	Typical < 0,1ms	
Contact resistance	:	Typical < 26 Ohm	
Switching operations	:	Unlimited	
Insulation voltage	:	5kVAC	
Leak current	:	on 10V	on 50V
	:	N.O. < 0, 01µA	< 18µA
	:	N.C. < 16µA	< 18µA

### General data:

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Operating temperature	:	0...50°C
Storage temperature	:	-25...+85°C, condensation before putting into operation is not allowed
Electrical isolation	:	Input / power supply – output
MTBF	:	1080 years Mean Time Between Failures compliant with EN 61709 (SN 29500).
CE conformity	:	EN 61326-1, EN 61000-4-2/3*/4/5/6*, EN 61000-6-4

\* during measurements are small deviations possible

### Body:

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Dimension	:	See drawing, 6,2mm terminal block body, 6,2x63,5x91 mm
Material	:	PA 6, 6 / V2
Protection category	:	IP20 with side cover/end cover plate
Connection	:	Spring force connection 0, 2 - 4mm <sup>2</sup> , inflexible, 0,2 – 2,5mm, flexible
	:	Contact load with link plugs max. 24A
Fixing	:	Snap-on mounting for norm rail TS35
Weight	:	22g
Mounting position	:	As you like / Mountable side by side

**Note on safety:**

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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:**

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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:**

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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:**

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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:**

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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.