

## Optocoupler 5VDC – 500 kHz Input Current < 2mA

**OK21**

Characteristics:

- Push-pull output, plus/ground switching
- Input current < 2mA
- Transmission frequency 500kHz
- Output 5VDC/100mA
- Short-circuit proof < 1s
- Status display in output
- Fast switching time 0,1µs
- Mountable on 35mm cap rail TS35
- Mountable side by side via link plug
- Tension spring connection
- Shape 6,2mm
- High reliability, 5 years warranty



Description:

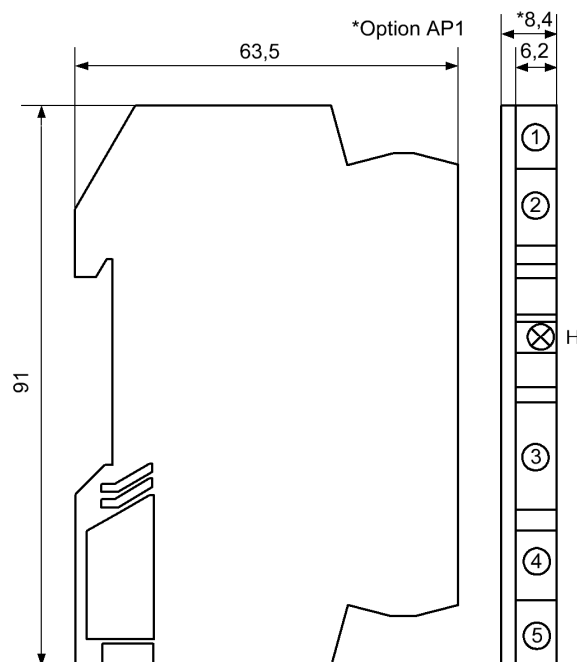
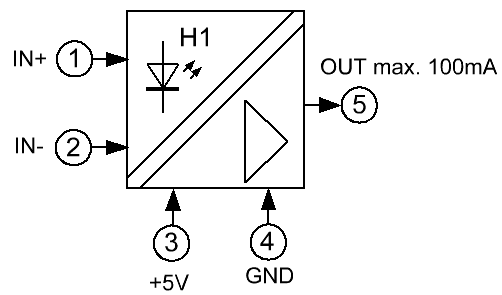
The devices of the optocouplers series OK21 are made for galvanic isolation resp. the amplification of TTL/HTL signals. Because of the extremely low input current they are particularly suitable for the driving of CMOS/TTL – outputs. Because of the push-pull output they are used as line driver. One LED in output displays the switch status.

Application:

Galvanic isolation for protecting for example process computer outputs.  
Driving via CMOS/TTL - outputs  
Signal transmission via long lines. Signal amplification, signal converter

**Order Code:**

	Input:	Output:
OK21-1	24VDC/<2mA	5VDC/100mA
OK21-2	5VDC/<2mA	5VDC/100mA
OK21-3	15VDC/<2mA	5VDC/100mA
OK21-4	3VDC/<2mA	5VDC/100mA



## Technical data:

### Supply:

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Supply voltage : 4...6 VDC  
Power consumption : 17 mA + load

### Inputs:

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OK21-1	16,8...30 VDC,	0,9...1,7 mA
OK21-2	3,5...6,25 VDC,	0,8...1,8 mA
OK21-3	10,5...18,75 VDC,	0,9...1,8 mA
OK21-4	2,1...3,75 VDC,	0,9...1,8 mA

### Outputs:

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Voltage output :  $U_{cc} - 0,5 V$   
Current output : Max. 100 mA, short-circuit proof < 1s  
Switching power : <0, 1 $\mu$ s  
Transmission frequency: 500 kHz

### General data:

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Operating temperature : 0...50°C  
Storage temperature : -25...+85°C, condensation before putting into operation is not allowed  
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, 6,2x63,5x91mm  
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 : 21g  
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.