

# Solid-state relay module - PLC-OSC- 24DC/ 24DC/ 3RW - 2980610

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6.2 mm PLC solid-state relay with screw connection for railway applications, 24 V DC input voltage, input voltage range from  $0.7 \times U_N$  to  $1.25 \times U_N$ , temperature range from  $-25^\circ\text{C}$  to  $+70^\circ\text{C}$

The illustration shows the version PLC-OSP- 24DC/ 24DC/3RW



## Key commercial data

package_quantity	10
GTIN	4046356094542

## Technical data

### Dimensions

Width	6.2 mm
Height	80 mm
Depth	86 mm

### Ambient conditions

Ambient temperature (operation)	$-25^\circ\text{C} \dots 70^\circ\text{C}$
Ambient temperature (storage/transport)	$-40^\circ\text{C} \dots 85^\circ\text{C}$

### Input data

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	0.7 ... 1.25
Switching threshold "0" signal in reference to $U_N$	$\leq 0.3$
Switching threshold "1" signal in reference to $U_N$	$\geq 0.6$
Typical input current at $U_N$	8.5 mA
Typical response time	40 $\mu\text{s}$
Typical turn-off time	200 $\mu\text{s}$
Status display	Yellow LED
Type of protection	Protection against polarity reversal
Protective circuit/component	Polarity protection diode
Transmission frequency	300 Hz

### Output data

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## Technical data

### Output data

<b>Output voltage range</b>	3 V DC ... 33 V DC
<b>Limiting continuous current</b>	3 A
<b>Voltage drop at max. limiting continuous current</b>	≤ 200 mV
<b>Output circuit</b>	2-wire, floating
<b>Type of protection</b>	Protection against polarity reversal
<b>Type of protection</b>	Surge protection
<b>Protective circuit/component</b>	Polarity protection diode

### Connection data

<b>Connection method</b>	Screw connection
<b>Stripping length</b>	8 mm
<b>Screw thread</b>	M3
<b>Conductor cross section solid min.</b>	0.14 mm <sup>2</sup>
<b>Conductor cross section solid max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section stranded min.</b>	0.14 mm <sup>2</sup>
<b>Conductor cross section stranded max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section AWG/kcmil min.</b>	26
<b>Conductor cross section AWG/kcmil max</b>	14

### General

<b>Mounting position</b>	Any
<b>Assembly instructions</b>	In rows with zero spacing
<b>Inflammability class according to UL 94</b>	V0
<b>Pollution degree</b>	2
<b>Surge voltage category</b>	III

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27371102
<b>eCl@ss 4.1</b>	27371102
<b>eCl@ss 5.0</b>	27371001
<b>eCl@ss 5.1</b>	27371001
<b>eCl@ss 6.0</b>	27371001
<b>eCl@ss 7.0</b>	27371001
<b>eCl@ss 8.0</b>	27371001

### ETIM

<b>ETIM 2.0</b>	EC001504
<b>ETIM 3.0</b>	EC001504
<b>ETIM 4.0</b>	EC001504
<b>ETIM 5.0</b>	EC001504

### UNSPSC

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## classifications

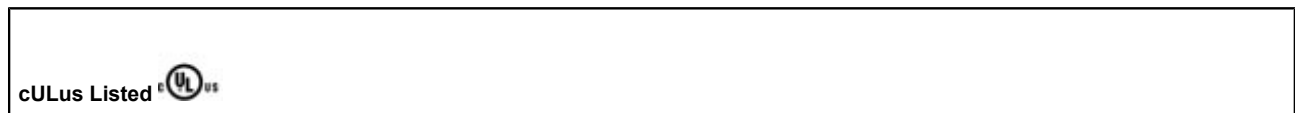
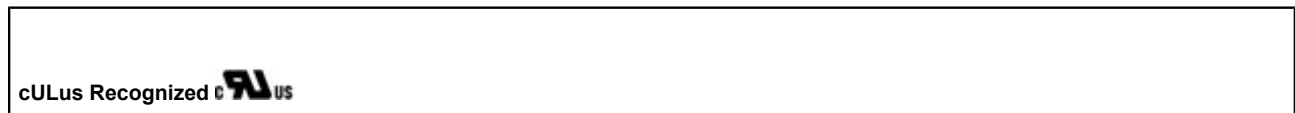
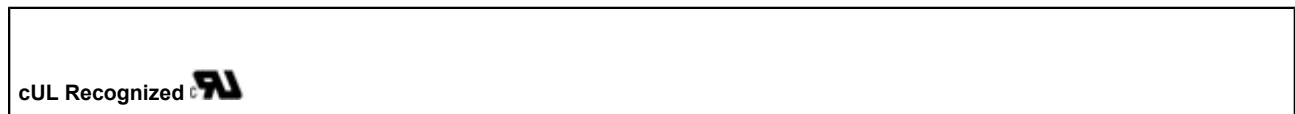
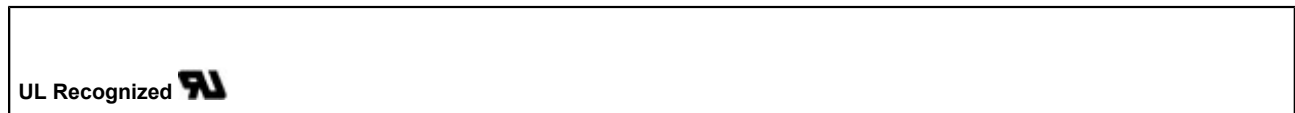
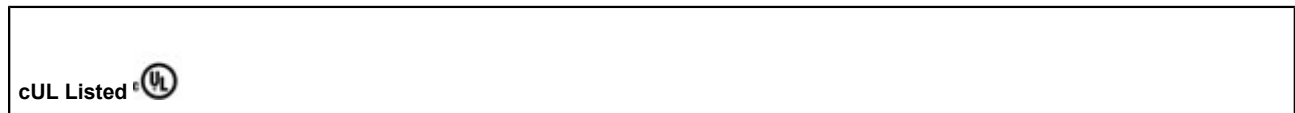
### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39121542

## approvals

UL Listed / cUL Listed / GL / UL Recognized / cUL Recognized / cULus Recognized / cULus Listed /

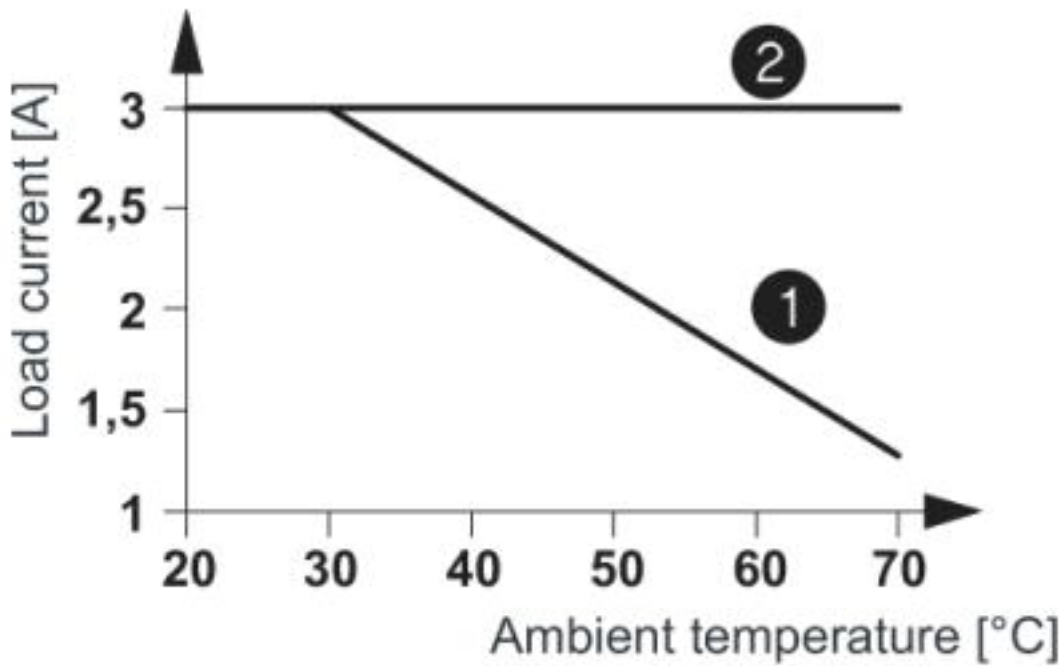
### Approval details



## Drawings

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Diagram



- 1 In rows with zero spacing
- 2 in rows with > 20 mm spacing

The illustration shows the load current as function of the ambient temperature range PLC-OSP-.../24DC/3RW. Duty cycle: 100% operating factor

Circuit diagram

