

# Optocoupler - PLC-OSC-120UC/ 48DC/100/C1D2 - 5603263


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PLC-INTERFACE, consisting of DIN rail-mountable basic terminal block with screw connection and plug-in miniature solid-state relay, input: 120 V AC/110 V DC, output: 3 - 48 V DC/100 mA, UL/cUL: approved for use in Ex Zone Class I, Div. 2



## Key Commercial Data

Packing unit	10 STK
GTIN	 4 046356 683388
GTIN	4046356683388

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

### Input data

Nominal input voltage $U_N$	120 V AC
	110 V DC
Input voltage range in reference to $U_N$	0.9 ... 1.1
Input voltage range	108 V AC ... 132 V AC
	99 V DC ... 121 V DC
Switching threshold "0" signal in reference to $U_N$	$\leq 0.3$

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## Technical data

### Input data

Switching threshold "1" signal in reference to U <sub>N</sub>	≥ 0.9
Typical input current at U <sub>N</sub>	3.5 mA
Typical response time	3 ms (at U <sub>N</sub> )
Typical turn-off time	4 ms (at U <sub>N</sub> )
Operating voltage display	Yellow LED
Type of protection	Bridge rectifier
Protective circuit/component	Bridge rectifier
Transmission frequency	10 Hz
Power dissipation for nominal condition	0.42 W

### Output data

Output voltage range	3 V DC ... 48 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	≤ 1 V
Output circuit	2-wire, floating
Type of protection	Reverse polarity protection
	Surge protection
Protective circuit/component	Polarity protection diode

### Connection data, input side

Connection name	Input side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M 3
Conductor cross section solid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	26 ... 14

### Connection data, output side

Connection name	Output side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M 3
Conductor cross section solid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	26 ... 14

### General

Test voltage input/output	2.5 kV (50 Hz, 1 min.)
Mounting position	any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Flammability rating according to UL 94	V0

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## Technical data

### General

Designation	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
Degree of pollution	2
Overvoltage category	III
UL, USA	Class I, Zone 2, AEx nA nC IIC T6
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D
UL, Canada	Class I, Zone 2, Ex nA nC IIC Gc T6 X

### Standards and Regulations

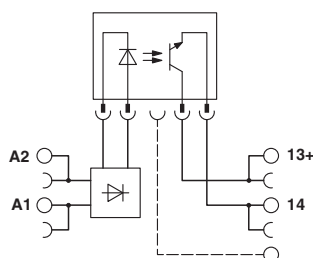
Designation	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
Insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III
Flammability rating according to UL 94	V0
Conformance	CE-compliant
UL, USA	Class I, Zone 2, AEx nA nC IIC T6
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D
UL, Canada	Class I, Zone 2, Ex nA nC IIC Gc T6 X

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Circuit diagram



## Approvals

Approvals

# Optocoupler - PLC-OSC-120UC/ 48DC/100/C1D2 - 5603263

## Approvals

Approvals

EAC


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Ex Approvals

UL Listed / cUL Listed / cULus Listed

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## Approval details

EAC		RU C- DE.A*30.B.01082
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