

# PLC-V8R/ETH-MP/BM - Communication module



1279135

<https://www.phoenixcontact.com/fr/products/1279135>

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Base module with multi-protocol connection (PROFINET, EtherNet/IP™, and Modbus/TCP) with 8 I/Os, for plug-in connection to 8 digital or analog PLC-INTERFACE terminal blocks, can be extended to 56 I/Os. Approved in accordance with ATEX/IECEx (Zone 2) and Ex Zone Class I, Zone 2 (Div. 2).

## Commercial data

Item number	1279135
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DK62P1
Product key	DK62P1
GTIN	4063151476656
Weight per piece (including packing)	103,5 g
Weight per piece (excluding packing)	103,5 g
Customs tariff number	85371098
Country of origin	Information on the country of origin is provided with the delivery.

## Technical data

### Notes

Notes on operation	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.
Notes on operation	Please note any deviating technical data, installation directives, and approvals for the PLC-INTERFACE modules, which can be found with the respective item.
Note regarding laboratory testing	Environmental tests (vibration and shock): Upright non-perforated DIN rail, DIN rail screw-fastened every 10 cm, in-line mounting including upright and screw-fastenable end brackets

### Product properties

Product family	PLC-INTERFACE
Operating mode	100% operating factor

#### Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

### Electrical properties

Power consumption	1.25 W (no other inputs and outputs active)
	≤ 1.27 W (no other inputs and outputs active)
	3.3 W (8 x PLC-INTERFACE terminal blocks active)
	≤ 4.5 W (8 x PLC-INTERFACE terminal blocks active)
	10.8 W (Active in combination with 3 x extension modules and 32 x PLC relay slices)
	≤ 18.6 W (Active in combination with 3 x extension modules and 32 x PLC relay slices)

#### Air clearances and creepage distances

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV

#### Supply

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC
Input current	40 mA (no other inputs and outputs active)
	≤ 44 mA (no other inputs and outputs active)
	105 mA (8 x PLC-INTERFACE terminal blocks active)
	≤ 120 mA (8 x PLC-INTERFACE terminal blocks active)
	57 mA (Active in combination with 3 x extension modules and no other inputs and outputs)

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	≤ 67 mA (Active in combination with 3 x extension modules and no other inputs and outputs)
	127 mA (Active in combination with 3 x extension modules and 8 x PLC relay slices)
	≤ 140 mA (Active in combination with 3 x extension modules and 8 x PLC relay slices)
Protective circuit	Reverse polarity protection
	Surge protection

## Input data

### Digital inputs via PLC-INTERFACE plug-in contacts

Number of inputs	≤ 8
Process data update	< 1.5 ms (Local bus asynchronous)

### Analog inputs via PLC-INTERFACE plug-in contacts

Number of inputs	≤ 8
Process data update	< 1 s (Local bus asynchronous)

## Output data

### Digital outputs via PLC-INTERFACE plug-in contacts

Number of outputs	≤ 8
Process data update	< 1 ms (Local bus asynchronous)

### Analog outputs via PLC-INTERFACE plug-in contacts

Number of outputs	≤ 8
Process data update	< 500 ms (Local bus asynchronous)

## Connection data

### COMBICON connection

Connection method	Push-in connection
Stripping length	9 mm
Number of positions	3
Note	Device supply and functional ground
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule without plastic sleeve)
	0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> (Ferrule with plastic sleeve)
Conductor cross-section AWG	26 ... 16

### Ethernet

Connection method	RJ45 jack
Number of connections	2

### Interface to the extension modules

Connection method	Insulation displacement connection
Number of connections	1

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Number of positions	4
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## Interfaces

### Ethernet

Designation	Ethernet
Number	2 (Switched internally)
Protocol	PROFINET
	Modbus/TCP
	EtherNet/IP™
Transmission speed	10/100 Mbps (full duplex)
Transmission length	≤ 100 m

### Local bus

Designation	Local bus
Cycle time (1 Erweiterungsmodul)	5 ms
	≤ 12 ms
Cycle time (2 Erweiterungsmodule)	15 ms
	≤ 35 ms
Cycle time (3 Erweiterungsmodule)	28 ms
	≤ 65 ms

## Signaling

Status display	PWR LED (green, orange, red)
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## Dimensions

### Item dimensions

Width	50 mm
Height	49 mm
Depth	93 mm

### Item dimensions with relay

Width	50 mm
Height	111 mm
Depth	93 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Housing)	IP20
Degree of protection (Connection terminal blocks)	IP20
Degree of protection (Installation location)	≥ IP54
Ambient temperature (operation)	-40 °C ... 60 °C (observe derating)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	≤ 2000 m
	≤ 3000 m (≤ 52 °C)

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	≤ 4000 m (≤ 46 °C)
Max. permissible relative humidity (operation)	95 % (non-condensing)
Shock (operation)	15g (11 ms, 3 axes) (EN 60068-2-27)
Vibration (operation)	5g (5 Hz ... 150 Hz, 3 axes) (EN 60068-2-6)

## EMC data

Interference emission	EN 55016-2-3 (residential area)
Noise immunity (against electrostatic discharge)	EN 61000-4-2: ±6 kV (contact discharge)
	EN 61000-4-2: ±8 kV (air discharge)
Noise immunity (against electromagnetic fields)	EN 61000-4-3: 10 V/m
Noise immunity (against conducted high frequency)	EN 61000-4-6: 10 V
Noise immunity (against fast transients (bursts))	EN 61000-4-4: ±2 kV supply and signal lines
Noise immunity (against surge current loads (surges))	EN 61000-4-5: 0.5 kV symmetrical on supply line
	EN 61000-4-5: 1 kV asymmetrical on supply line
	EN 61000-4-5: 1 kV asymmetrical on signal line
Noise immunity (Voltage interruptions)	EN 61131-2: 0%, 1 ms/10 ms for 20 tests
	EN 61131-2: 120% U <sub>nom</sub> for 30 min
	EN 61131-2: 85% U <sub>nom</sub> for 30 min
Noise immunity (Testing the supply voltage variation)	EN 61131-2: Reduction of UN, 100% between 10 s and 20 s, tested 10 times
	EN 61131-2: Reduction of UN, 95% up to 5 s
	EN 61131-2: Reduction of UN, 95% up to 60 s

## Standards and regulations

### Air clearances and creepage distances

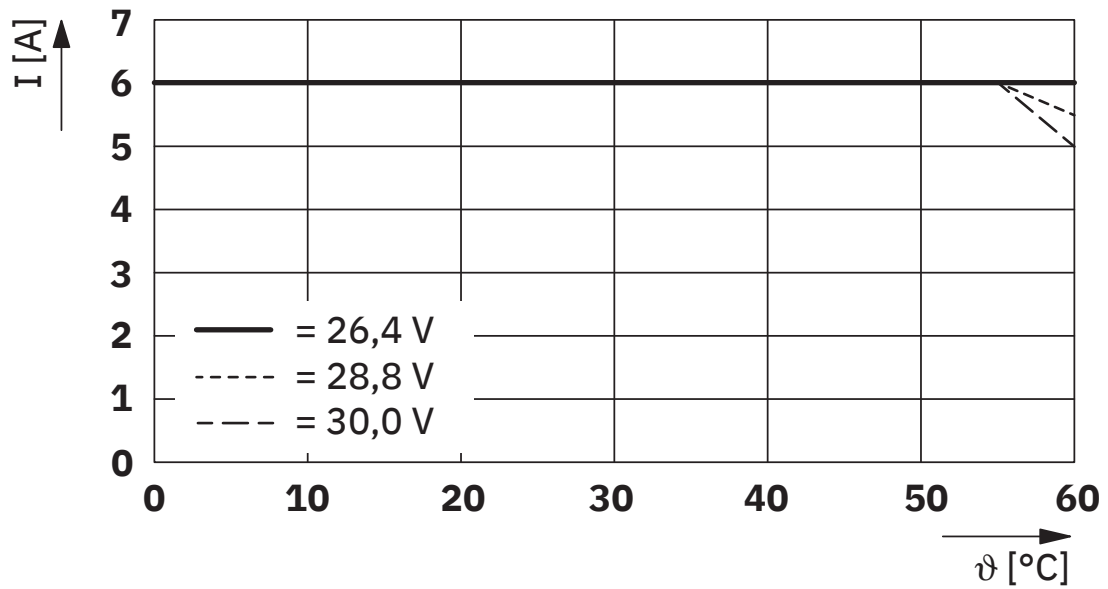
Standards/regulations	IEC/EN/UL 61010-2-201
	EN IEC 60664-1
Standards/regulations	DIN EN 61131-2

## Mounting

Mounting type	Plug-in mounting
Assembly note	can be plugged onto 8 x PLC-INTERFACE terminal blocks
Mounting position	horizontal

## Drawings

Diagram



Max. switching current of the PLC-R...24DC/21 and PLC-R...24DC/21EX modules in combination with PLC-V8R...

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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/fr/products/1279135>

### PROFINET

Approval ID: Certificate Z14092

### EtherNet/IP CONFORMANCE TESTED TM

Approval ID: File Number 12583.01



### cULus Listed

Approval ID: E140324



### IECEx

Approval ID: IECEx IBE 16.0029X



### cULus Listed

Approval ID: E360692

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## Classifications

### ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

### ETIM

ETIM 10.0	EC001604
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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### EF3.1 Climate Change

CO2e kg	6,034 kg CO2e
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