

2861205

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Inline field multiplexer, complete with accessories (connector and labeling field), transmission of very remote signals without configuration

Product description

A field multiplexer system is a simple system for transmitting signals between two remote stations. It has a modular structure and is designed to reduce conventional parallel cabling. A field multiplexer system consists of two identical field multiplexer stations. The field multiplexer exchanges data with the remote station via a remote bus cable. The field multiplexer is the central unit of a field multiplexer station. All the necessary Inline I/O terminals of a station are connected to the field multiplexer.

Your advantages

- Remote bus connections in copper technology (can be operated via fiber optics using an interface converter as an option)
- A field multiplexer station can be supplied with all of the required 24 V voltages
- · Floating alarm output ("N/C" relay contact) for connecting alarm signals
- Up to 63 I/O terminals can be connected
- Up to 512 digital or 32 analog I/Os (or a mixture) can be connected
- · Connection establishment and comparison of the I/O configuration of both stations

Commercial data

Item number	2861205
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI11M
GTIN	4017918902506
Weight per piece (including packing)	258.5 g
Weight per piece (excluding packing)	212 g
Customs tariff number	85389091
Country of origin	DE



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Technical data

Dimensions

Dimensional drawing	136,8 119,8 20 0 0 0 0 0 0 0 0
Width	48.8 mm
Height	135 mm
Depth	71.5 mm

Notes

Note on application

Interfaces

Remote bus

Connection method	Inline shield connector
Transmission physics	RS-485
Inline local bus	
Connection method	Inline data jumper

500 kbps

System properties

Transmission speed

System limits

Number of local bus devices that can be connected	32 (without additional power terminal block, observe allowable total current consumption)
Number of devices with parameter channel	0
Number of supported branch terminals with remote bus branch	0
Module	
ID code (hex)	none

Output data

Relay

Contact switching type	N/C contact
Contact connection type	floating contacts
Switching voltage	typ. 24 V DC
	max. 150 V



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	max. 125 V AC
Switching current	max. 1 A
Switching power	max. 30 W
	max. 60 VA
oduct properties	
Product type	I/O component
Product family	Inline
Туре	modular
Insulation characteristics	
Overvoltage category	II
Pollution degree	2 (in accordance with EN 50178)
ectrical properties	
Maximum power dissipation for nominal condition	3 W
Protective circuit	Surge protection (segment supply, main supply, field multiplexer supply); Input protective diodes (can be destroyed by permanen overload)Pulse loads up to 1500 W are short circuited by the input protective diode.
	Protection against polarity reversal (segment supply/main supply); Parallel diodes for protection against polarity reversal; in the event of an error the high current flowing through the diodes causes the fuse connected upstream to blow.
	Protection against polarity reversal (field multiplexer supply); Serial diode in the lead path of the power supply unit; in the event of an error only a low current flows. In the event of an error
	no fuse trips within the external power supply unit.
Potentials: Field multiplexer supply U _{MUX} ; the communications power U _l supply U _{MUX} .	no fuse trips within the external power supply unit.
supply U _{MUX} .	no fuse trips within the external power supply unit. $ (7.5 \text{ V}) \text{ and the analog supply } \text{U}_{\text{ANA}} \text{ (24 V) are generated from } $
	no fuse trips within the external power supply unit.
Supply Voltage	no fuse trips within the external power supply unit. (7.5 V) and the analog supply U _{ANA} (24 V) are generated from 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple)
Supply U _{MUX} . Supply voltage Supply voltage range	no fuse trips within the external power supply unit. (7.5 V) and the analog supply U _{ANA} (24 V) are generated from 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple)
Supply U _{MUX} . Supply voltage Supply voltage range Current draw	no fuse trips within the external power supply unit. (7.5 V) and the analog supply U _{ANA} (24 V) are generated from 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks)
Supply U _{MUX} . Supply voltage Supply voltage range	no fuse trips within the external power supply unit. (7.5 V) and the analog supply U _{ANA} (24 V) are generated from 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks)
Supply U _{MUX} . Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L)	no fuse trips within the external power supply unit. (7.5 V) and the analog supply U _{ANA} (24 V) are generated from 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks typ. 60 mA (without connected Inline I/O terminals)
Supply U _{MUX} . Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L) Supply voltage	no fuse trips within the external power supply unit. (7.5 V) and the analog supply U _{ANA} (24 V) are generated from 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks typ. 60 mA (without connected Inline I/O terminals)
Supply U _{MUX} . Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L) Supply voltage Potentials: Supply of analog modules (U _{ANA})	no fuse trips within the external power supply unit. (7.5 V) and the analog supply U _{ANA} (24 V) are generated from 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks typ. 60 mA (without connected Inline I/O terminals) 7.5 V DC ±5 %
Supply U _{MUX} . Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L) Supply voltage Potentials: Supply of analog modules (U _{ANA}) Supply voltage	no fuse trips within the external power supply unit. (7.5 V) and the analog supply U _{ANA} (24 V) are generated from 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks typ. 60 mA (without connected Inline I/O terminals) 7.5 V DC ±5 %
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Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L) Supply voltage Potentials: Supply of analog modules (U _{ANA}) Supply voltage Supply voltage Supply voltage range Potentials: Main circuit supply (U _M) Supply voltage Supply voltage Supply voltage Supply voltage	no fuse trips within the external power supply unit. (7.5 V) and the analog supply U _{ANA} (24 V) are generated from 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple) max. 1.25 A (with max. number of connected I/O terminal blocks typ. 60 mA (without connected Inline I/O terminals) 7.5 V DC ±5 % 24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple)
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Electrical isolation/isolation	of the	voltage ranges
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Test voltage: RS-485 interface / supply voltage	500 V AC
Test voltage: RS-485 interface / local bus	500 V AC

Connection data

Connection technology

Connection name	Inline connector
Conductor connection	
Connection method	Spring-cage connection
Conductor cross-section rigid	0.08 mm ² 1.5 mm ²
Conductor cross-section flexible	0.08 mm ² 1.5 mm ²
Conductor cross-section AWG	28 16
Stripping length	8 mm

Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm² 1.5 mm²
Conductor cross-section, flexible	0.08 mm² 1.5 mm²
Conductor cross-section AWG	28 16
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C 55 °C
Degree of protection	IP20
Air pressure (operation)	70 kPa 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-25 °C 85 °C
Permissible humidity (operation)	10 % 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % 95 % (non-condensing)

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Mounting

Mounting type	DIN rail mounting

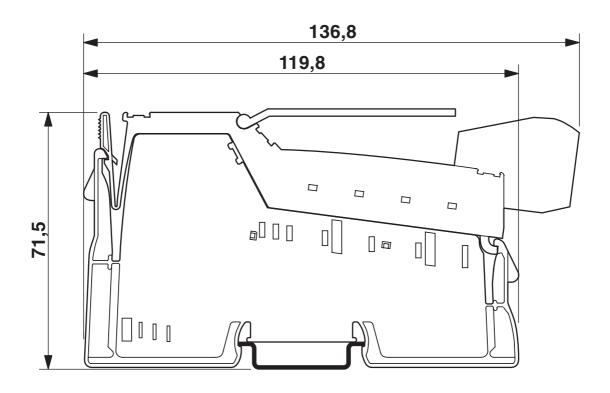
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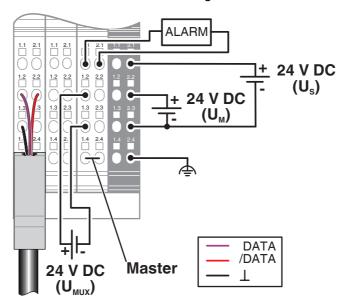


Drawings

Dimensional drawing



Connection diagram





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Approvals

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EAC

Approval ID: TR TS_S_03508-21



cULus Recognized

Approval ID: E140324



cULus ListedApproval ID: E199827



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Classifications

ECLASS

	ECLASS-13.0	27242608	
	ECLASS-15.0	27242608	
ETIM			
	ETIM 9.0	EC001604	
UNSPSC			
	UNSPSC 21.0	32151600	

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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)
SCIP	d3fdeb6a-6ef6-4be6-8499-fe25d611eb53

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