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
Catalog page	Page 109 (C-6-2019)
GTIN	4017918902506
Weight per piece (including packing)	268.5 g
Weight per piece (excluding packing)	212 g
Customs tariff number	85389091
Country of origin	DE

HQEN

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Technical data

Dimensions

Dimensional drawing	
Width	48.8 mm
Height	135 mm
Depth	71.5 mm

Interfaces

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

System properties

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

Contact switching type	N/C contact
Contact connection type	floating contacts
Switching voltage	typ. 24 V DC
	max. 150 V
	max. 125 V AC
Switching current	max. 1 A
Switching capacity	max. 30 W
	max. 60 VA



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Product properties

Туре	modular
Product type	I/O component
Product family	Inline
Insulation characteristics	
Overvoltage category	11
Pollution degree	2 (in accordance with EN 50178)
ectrical properties	
Protective circuit	Surge protection (segment supply, main supply, field multiplexer supply); Input protective diodes (can be destroyed by permanent 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; ir 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 erro no fuse trips within the external power supply unit.
supply U _{MUX} .	power U _L (7.5 V) and the analog supply U _{ANA} (24 V) are generated from 0.01×10^{-2} (1.1 km second b)
supply U _{MUX} . Supply voltage	24 V DC (via Inline connector)
supply U _{MUX} . Supply voltage Supply voltage range	24 V DC (via Inline connector) 19.2 V DC 30 V DC (including all tolerances, including ripple)
supply U _{MUX} . Supply voltage	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	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 Potentials: Communications power (U _L)	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	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)
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supply U _{MUX} . Supply voltage Supply voltage range Current draw Potentials: Communications power (U _L) Supply voltage Potentials: Supply of analog modules (U _{ANA})	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 Supply voltage range	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)
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	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)
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 Supply voltage range Potentials: Main circuit supply (U _M)	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)
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 Supply voltage range Potentials: Main circuit supply (U _M) Supply voltage Supply voltage Supply voltage Supply voltage range	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) 24 V DC (via voltage jumper)
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 Supply voltage range Potentials: Main circuit supply (U _M) Supply voltage Supply voltage Supply voltage Supply voltage range	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) 24 V DC (via voltage jumper)
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 Supply voltage range Potentials: Main circuit supply (U _M) Supply voltage Supply voltage Supply voltage Potentials: Main circuit supply (U _M) Supply voltage Supply voltage Supply voltage Supply voltage Supply voltage Supply voltage range Potentials: Segment circuit supply (U _S)	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) 24 V DC (via voltage jumper) 19.2 V DC 30 V DC (including all tolerances, including ripple)
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 Supply voltage range Potentials: Main circuit supply (U _M) Supply voltage Supply voltage range Potentials: Segment circuit supply (U _S) Supply voltage Supply	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) 24 V DC (via voltage jumper) 19.2 V DC 30 V DC (including all tolerances, including ripple) 24 V DC (via voltage jumper) 24 V DC (via voltage jumper)
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 Supply voltage range Potentials: Main circuit supply (U _M) Supply voltage Supply voltage Potentials: Segment circuit supply (U _S) Supply voltage	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) 24 V DC (via voltage jumper) 19.2 V DC 30 V DC (including all tolerances, including ripple) 24 V DC (via voltage jumper) 24 V DC (via voltage jumper)

Connection data



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Conductor cross section rigid	Spring-cage connection 0.08 mm ² 1.5 mm ²
Connection method Conductor cross section rigid Conductor cross section flexible Conductor cross section AWG	
Conductor cross section flexible	0.08 mm^2 1.5 mm ²
Conductor cross saction AVA/C	0.08 mm ² 1.5 mm ²
Conductor cross section Awg	28 16
Stripping length	8 mm
ne connector	
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
ronmental and real-life conditions	
bient conditions Ambient temperature (operation)	-25 °C 55 °C
	-25 °C 55 °C IP20
Ambient temperature (operation)	
Ambient temperature (operation) Degree of protection	IP20
Ambient temperature (operation) Degree of protection Air pressure (operation)	IP20 70 kPa 106 kPa (up to 3000 m above sea level)
Ambient temperature (operation) Degree of protection Air pressure (operation) Air pressure (storage/transport)	IP2070 kPa 106 kPa (up to 3000 m above sea level)70 kPa 106 kPa (up to 3000 m above sea level)

Mounting

Mounting type DIN rail mounting	Mounting type	DIN rail mounting
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Classifications

ECLASS

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608

ETIM

	ETIM 9.0	EC001604
UN	ISPSC	
	UNSPSC 21.0	32151600

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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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