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Radioline - I/O extension module, 8 digital transistor outputs (30.5 V DC/200 mA)

Your advantages

- Easy module replacement even during operation (hot swap)
- 8 transistor outputs (30.5 V DC/250 mA)
- Approved for use in zone 2



Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 681544
GTIN	4046356681544
Weight per Piece (excluding packing)	220.000 g
Custom tariff number	85177000
Country of origin	Germany

Technical data

Note

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

Dimensions

Width	17.5 mm
Height	113 mm



Technical data

Dimensions

Depth	114.5 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 70 °C
	-40 °F 158 °F
Ambient temperature (storage/transport)	-40 °C 85 °C
	-40 °F 185 °F
Permissible humidity (operation)	20 % 85 %
Permissible humidity (storage/transport)	20 % 85 %
Altitude	2000 m
Vibration (operation)	in accordance with IEC 60068-2-6: 5g, 10 Hz 150 Hz
Shock	16g, 11 ms

General

Set consists of	2709561 ME 17,5 TBUS 1,5/ 5-ST-3,81 GN
Overvoltage category	II
Mounting position	any
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Degree of pollution	2
Housing material	PA 6.6-FR
Flammability rating according to UL 94	V0
MTTF	1594 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	600 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))
	230 Years (Telcordia standard, temperature 40 °C, operating cycle 100 % (7 days a week, 24 hours a day))

Supply

Supply voltage range	19.2 V DC 30.5 V DC (DIN rail connector)
Max. current consumption	≤ 22 mA (At 24 V DC, at 25°C)
Transient surge protection	Yes

Digital outputs

Number of outputs	8
Contact type	Transistor
Supply voltage range	12 V DC 30.5 V DC (for digital outputs)
Maximum switching voltage	30.5 V DC
Max. switching current	200 mA (per channel)



Technical data

Digital outputs

Output current when switched off	≤ 300 µA
Output voltage when switched off	≤ 2 V
Maximum switching frequency	10 Hz
Behavior of the outputs (adjustable via DIP switch)	Hold / Reset

Electrical isolation

Test voltage

Digital I/O	1.5 kV AC (50 Hz, 1 min.)
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Connection data

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	7 mm
Tightening torque	0.6 Nm
Screw thread	M3

Status indicator

Status display	Green LED (supply voltage, PWR)
	Green LED (bus communication, DAT)
	Red LED (periphery error, ERR)
	Yellow LED (digital output, DO1)
	Yellow LED (digital output, DO2)
	Yellow LED (digital output, DO3)
	Yellow LED (digital output, DO4)
	Yellow LED (digital output, DO5)
	Yellow LED (digital output, DO6)
	Yellow LED (digital output, DO7)
	Yellow LED (digital output, DO8)

Conformance/approvals

Designation	CE
Identification	CE-compliant



Technical data

Conformance/approvals

Designation	EAC	
Identification	EAC	
Designation	ATEX	
Identification	# II 3 G Ex nA IIC T4 Gc	
Certificate	IBExU 15 ATEX B008 X	
Additional text	Please follow the special installation instructions in the documentation!	
Designation	IECEx	
Identification	Ex nA IIC T4 Gc	
Certificate	IECEx IBE 13.0019X	
Designation	UL, USA/Canada	
Identification	508 Listed	
	Class I, Div. 2, Groups A, B, C, D T4A	
	Class I, Zone 2, IIC T4	
Designation	Corrosive gas test	
Identification	ISA-S71.04-1985 G3 Harsh Group A	

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU	
Standard designation	EMC Directive 2014/30/EU	
Standards/regulations	EN 61000-6-2	
Standard designation	EMC Directive 2014/30/EU	
Standards/regulations	EN 61000-6-4	
Standard designation	Ex Directive (ATEX)	
Standards/regulations	EN 60079-0	
Standard designation	Ex Directive (ATEX)	
Standards/regulations	EN-60079-15	
Noise emission	EN 61000-6-4	
Noise immunity	EN 61000-6-2	
Flammability rating according to UL 94	V0	
Shock	16g, 11 ms	
Vibration (operation)	in accordance with IEC 60068-2-6: 5g, 10 Hz 150 Hz	

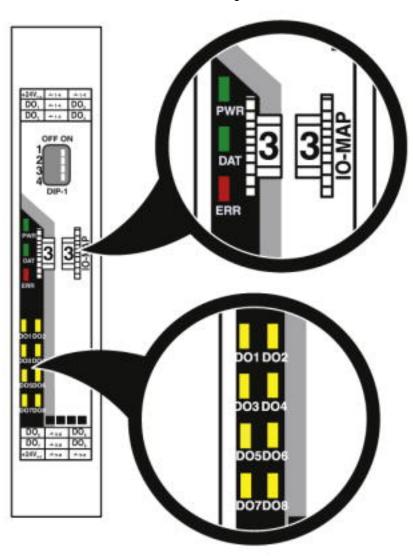
Environmental Product Compliance

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



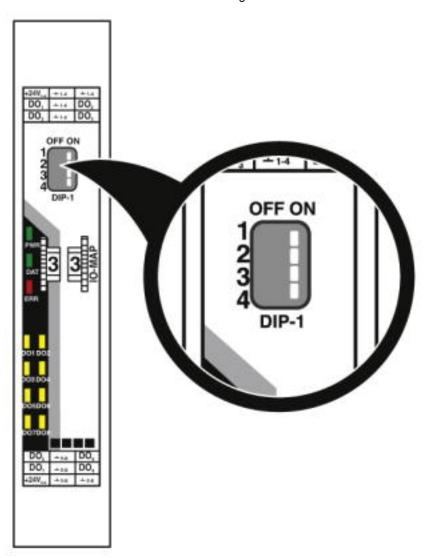
Schematic diagram



LED indicators



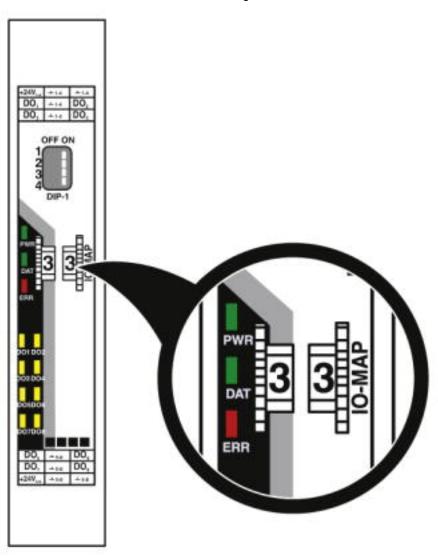
Schematic diagram



DIP switches



Schematic diagram



Thumb wheel



Dimensional drawing

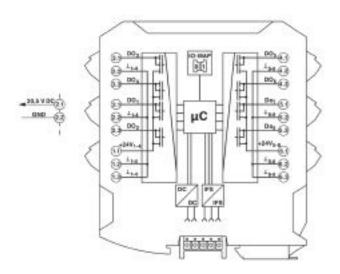
99

17,5

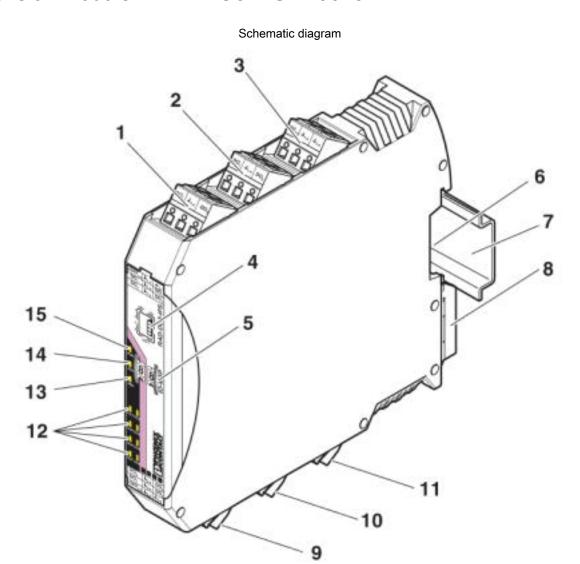
Slim design



Circuit diagram

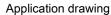


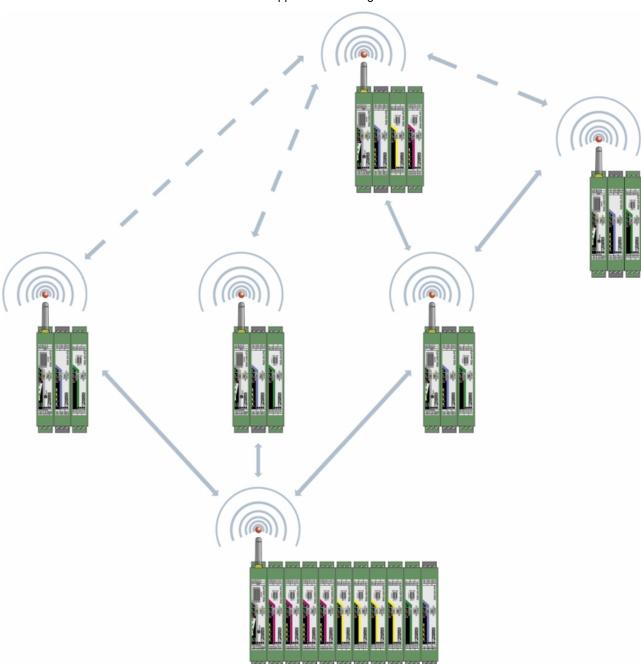




Function elements

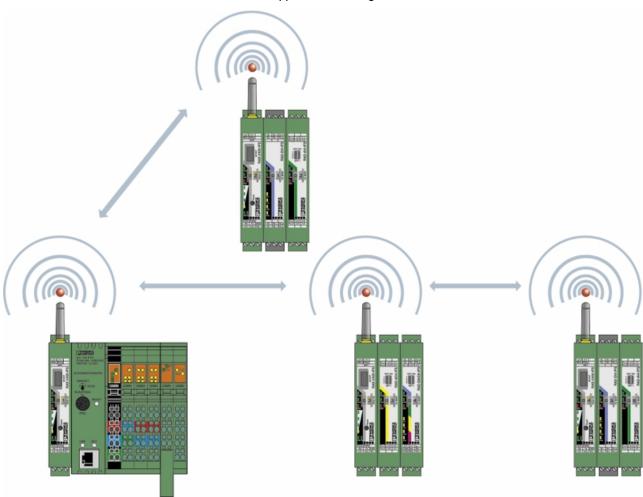














Articles in set

DIN rail bus connectors - ME 17,5 TBUS 1,5/5-ST-3,81 GN - 2709561



DIN rail connector for DIN rail mounting. Universal for TBUS housing. Gold-plated contacts, 5-pos.

Classifications

eCl@ss

eCl@ss 4.0	27230200
eCl@ss 4.1	27230200
eCl@ss 5.0	27242200
eCl@ss 5.1	27242200
eCl@ss 6.0	27242600
eCl@ss 7.0	27242604
eCl@ss 8.0	27242604
eCl@ss 9.0	27242604

ETIM

ETIM 3.0	EC001423
ETIM 4.0	EC000310
ETIM 5.0	EC001599
ETIM 6.0	EC001599
ETIM 7.0	EC001599

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	43223108
UNSPSC 11	39121008
UNSPSC 12.01	43223108
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602



Appiovais	Αp	prova	ıls
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Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

IECEx / ATEX / UL Listed / cUL Listed / cULus Listed

Approval details

UL Listed



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

FILE E 238705

cUL Listed



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

FILE E 238705

EAC



EAC-Zulassung

cULus Listed



Accessories

Accessories

DIN rail connector

DIN rail bus connectors - ME 17,5 TBUS 1,5/5-ST-3,81 GN - 2709561



DIN rail connector for DIN rail mounting. Universal for TBUS housing. Gold-plated contacts, 5-pos.



Accessories

Extension module

I/O extension module - RAD-DI8-IFS - 2901539



Radioline - I/O extension module, 8 digital inputs (0 ... 30.5 V DC) or 2 pulse inputs up to 100 Hz

Necessary add-on products

Wireless module - RAD-2400-IFS - 2901541



Radioline - 2.4 GHz wireless transceiver with RS-232/RS-485 interface, can be extended with I/O modules, RSMA (female) antenna connection, point-to-point, star, and mesh networks up to 250 stations, range of up to 5 km (with a clear line of sight), for worldwide use

Wireless module - RAD-900-IFS - 2901540



Radioline - 900 MHz wireless transceiver with RS-232/485 interface, can be extended with I/O modules, RSMA (female) antenna connection, point-to-point, star, and mesh networks up to 250 stations, range of up to 32 km (line of sight), use in North America

Wireless module - RAD-868-IFS - 2904909



Radioline - 868 MHz wireless transceiver with RS-232/RS-485 interface, can be extended with I/O modules, RSMA (female) antenna connection, point-to-point, star, and mesh networks up to 99 stations, range of up to 20 km (with a clear line of sight), for use in Europe

Communication module - RAD-RS485-IFS - 2702184



Radioline - RS-485 multipoint multiplexer, can be extended with I/O modules, can be used as Modbus/RTU bus coupler or can be combined with Radioline wireless system, up to 99 stations, range of up to 1.2 km on in-house copper cables



Accessories

Wireless module - RAD-2400-IFS-JP - 2702863



Radioline - 2.4 GHz wireless transceiver with RS-232/RS-485 interface, can be extended with I/O modules, RSMA (female) antenna connection, point-to-point, star, and mesh networks up to 250 stations, range of up to 5 km (with a clear line of sight), for use in Japan

Wireless module - RAD-900-IFS-AU - 2702878



Radioline - 900 MHz wireless transceiver with RS-232/485 interface, can be extended with I/O modules, RSMA (female) antenna connection, point-to-point, star, and mesh networks up to 250 stations, range of up to 32 km (line of sight), for use in Australia.

Additional products

I/O extension module - RAD-DI8-IFS - 2901539



Radioline - I/O extension module, 8 digital inputs (0 ... 30.5 V DC) or 2 pulse inputs up to 100 Hz

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