

I/O extension module - RAD-NAM4-IFS - 2316275

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Radioline - I/O extension module, 4 NAMUR digital input module used in Radioline and PROFIBUS PA MUX I/O systems. Fulfills the NAMUR proximity sensor standard EN 60947-5-6, and communication to the head stations for Radioline systems and the FB-MUX/HS...PA via the T-BUS connector installed on the DIN rail. This module has channel-to-channel isolation.

Your advantages

- ✓ Extended temperature range, -40 °C ... +70 °C
- ✓ Easy module replacement even during operation (hot swap)
- ✓ Easy startup via thumbwheel
- ✓ Approved for use in zone 2

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 321615
GTIN	4055626321615

Technical data

Note

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

Width	17.5 mm
Height	113 mm
Depth	114.5 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	20 % ... 95 % (non-condensing)
Altitude	2000 m

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Technical data

General

Set consists of	2709561 ME 17,5 TBUS 1,5/ 5-ST-3,81 GN
Overvoltage category	II
Degree of pollution	2
Housing material	PA 6.6-FR
Flammability rating according to UL 94	V0
MTTF	1065 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	449 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))
	85 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	≤ 64 mA (At 24 V DC, at 25°C)

Digital inputs

Description of the input	Digital input
Number of inputs	4
Available input sources	NAMUR proximity sensors (EN 60947-5-6)
	Floating switch contacts
	Switch contacts with resistance circuit
Switching level "1" signal	10 V DC ... 30.5 V DC
Switching level "0" signal	0 V DC ... 4 V DC
Min. voltage input signal	0 V DC
Max. voltage input signal	30.5 V DC
Current input signal	≤ 1.2 mA (blocking)
	≥ 2.1 mA (conductive)
Non-load voltage	~ 8 V DC
Switching hysteresis	≤ 0.2 mA
Short-circuit current	≤ 8 mA
Line fault detection	Break 0.05 mA < IIN < 0.35 mA
	Short circuit 100 Ω < RSensor < 360 Ω

Connection data

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	7 mm

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Technical data

Connection data

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 input, DI1)
	Yellow LED (digital input, DI2)
	Yellow LED (digital input, DI3)
	Yellow LED (digital input, DI4)
	Red LED (Short circuit/Line break, E1)
	Red LED (Short circuit/Line break, E2)
	Red LED (Short circuit/Line break, E3)
	Red LED (Short circuit/Line break, E4)

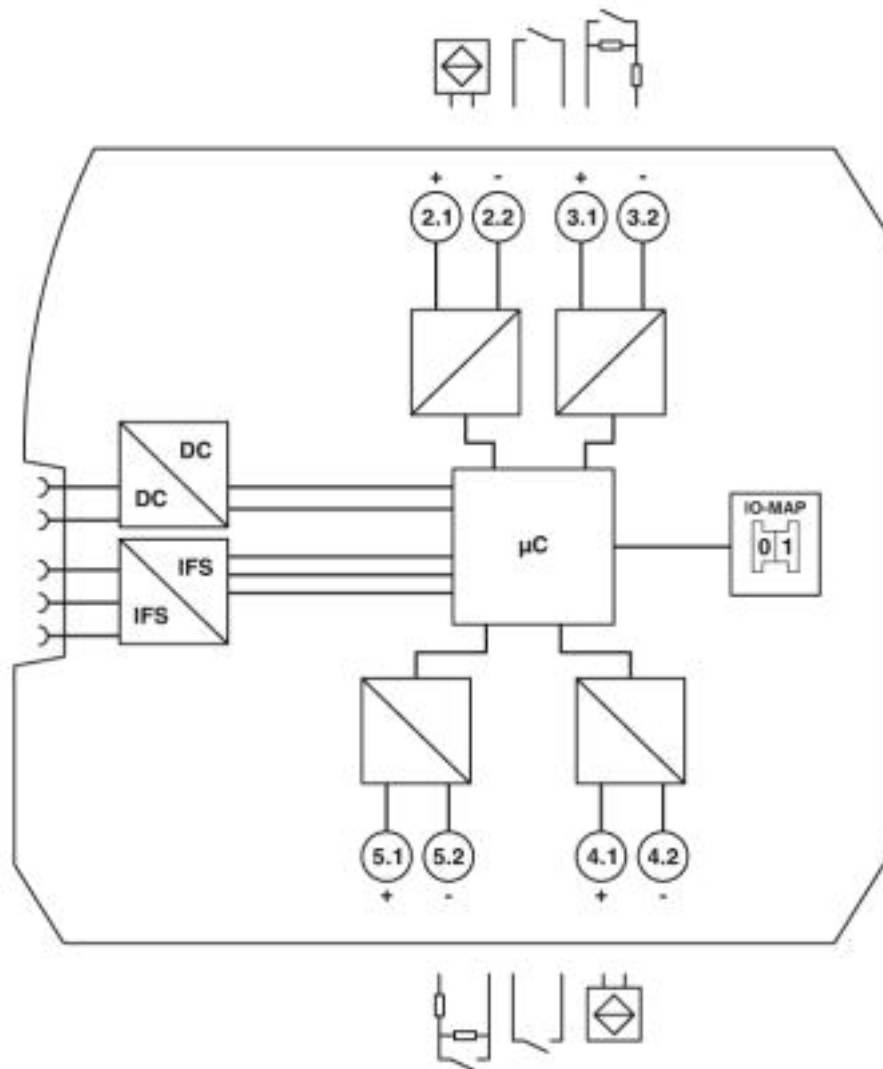
Standards and Regulations

Standard designation	Ex Directive (ATEX)
Standards/regulations	EN 60079-0
Flammability rating according to UL 94	V0
Conformance	CE-compliant
ATEX	IBExU 17ATEXB011X; II 3 G; Ex ec IIC T4 Gc
IECEX	IECEX IBE 17.0029X; Ex ec IIC T4 Gc
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D T4 Class I, Zone 2, AEx ec IIC T4, Ex ec IIC T4 Gc X

Drawings

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Block diagram



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.

Approvals

Approvals

I/O extension module - RAD-NAM4-IFS - 2316275

Approvals

Approvals

UL Listed / cUL Listed / 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

cULus Listed



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