

Signal isolator - PI-EX-NAM/TO - 2835574

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Ex-i binary input: NAMUR isolation amplifiers. For operating proximity sensors and switches in Ex areas. The binary signals are transmitted to a safe area. Transistor output (active), line fault detection. Electrical isolation.



Key commercial data

package_quantity	1
GTIN	4017918894863

Technical data

Note:

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

Width	12.4 mm
Height	145 mm
Depth	147 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C (see data sheet)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

Input data

Non-load voltage	8.2 V DC ±10 %
Switching points (attenuated)	< 1.2 mA (blocking)
Switching points (unattenuated)	> 2.1 mA (conductive)

Output data

Switching output	Transistor output, active, pnp
Configurable/programmable	Can be inverted via slide switch
Switching current	100 mA (short-circuit resistant)

Power supply

Supply voltage range	20 V DC ... 30 V DC
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Technical data

Power supply

Max. current consumption	25 mA
Power consumption	max. 0.6 W (24 V)

General

No. of channels	1
Status display	Green LED (supply voltage)
Status display	Yellow LED (status display)
Status display	Red LED (line errors)
Inflammability class according to UL 94	V0
Standards/regulations	NAMUR recommendation NE 21
Housing material	PBT and polyamide PA non-reinforced
Color	green
Name	Input/output
Electrical isolation	375 V (Peak value as per EN 50020 / EN 60079-11)
Name	Input/power supply
Electrical isolation	375 V (Peak value as per EN 50020 / EN 60079-11)
Conformance	CE-compliant
ATEX	# II (1) GD [EEx ia] IIC
ATEX	# II 3 G Ex nA II T4 X
UL, USA / Canada	UL applied for

Safety data

Max. output voltage U_o	10.6 V
Max. output current I_o	33 mA
Max. output power P_o	86 mW
Gas group	IIA
Max. external inductivity L_o	230 mH
Max. external capacity C_o	72 μ F
Gas group	IIB
Max. external inductivity L_o	110 mH
Max. external capacity C_o	16.2 μ F
Gas group	IIC
Max. external inductivity L_o	30 mH
Max. external capacity C_o	2.3 μ F
Safety-related maximum voltage U_m	250 V AC

classifications

eCl@ss

eCl@ss 4.0	27210121
eCl@ss 4.1	27210121
eCl@ss 5.0	27210121

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classifications

eCl@ss

eCl@ss 5.1	27210121
eCl@ss 6.0	27210121
eCl@ss 7.0	27210121
eCl@ss 8.0	27210121

ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599


UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

approvals

ATEX / GOST /

Approval details

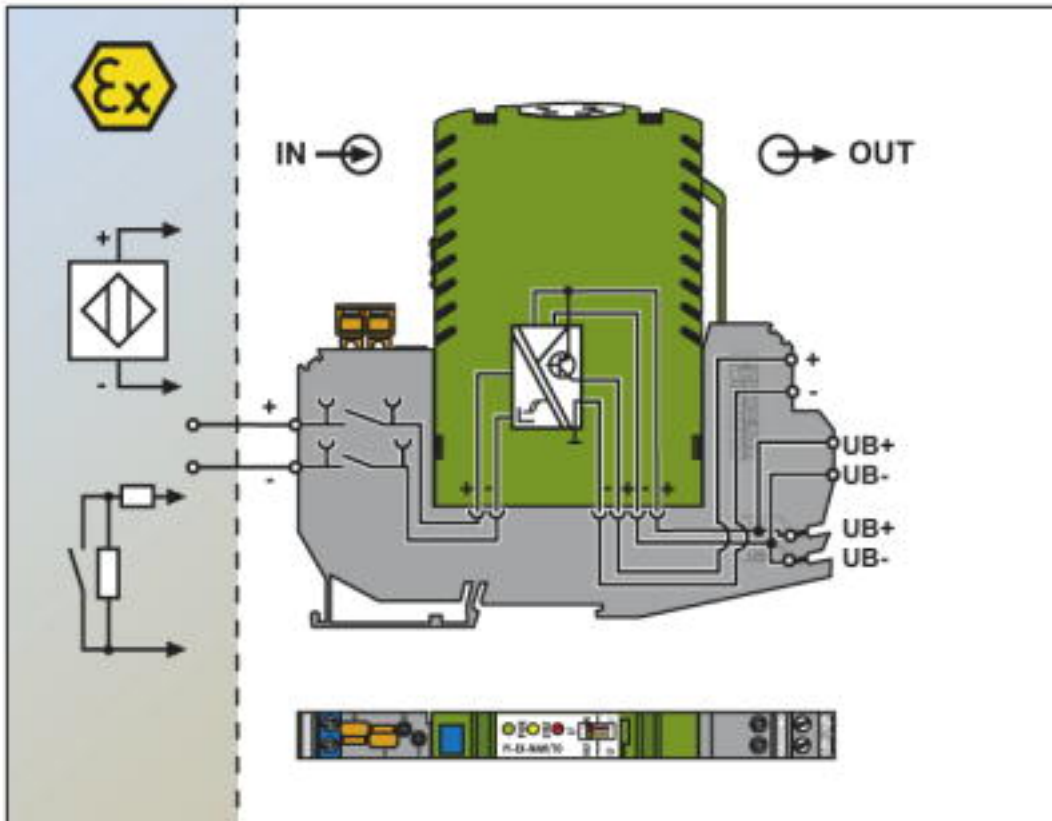
ATEX 	
Nominal voltage UN	
Nominal current IN	
mm ² /AWG/kcmil	

GOST 	
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Drawings

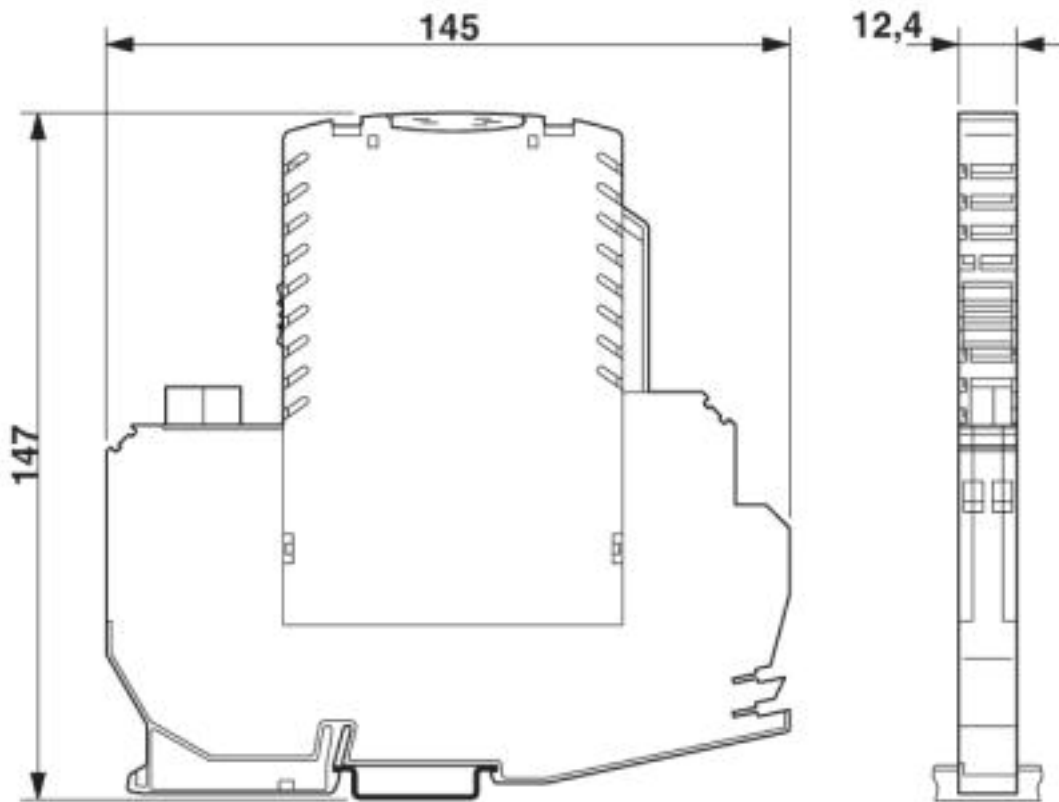
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Block diagram



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Dimensioned drawing



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