


MACX MCR-EX-SL-NAM-NAM-SP

Order No.: 2924883

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Ex i NAMUR signal conditioner. For operating Ex i proximity sensors and switches in the Ex area. Passive transistor output (resistive according to EN 60947-5-6), line fault transparency, up to SIL 2 according to IEC 61508; spring-cage connection.

Commercial data	
EAN	 4 046356 667852
Pack	1 pcs.
Customs tariff	85437090
Gross weight in pieces	0.15 KG
Net weight per piece (exclusive packing)	0.15 KG
Product key	CK3141
country of origin	DE
Catalog page information	Page 178 (CAT-7-2013)

Product notesWEEE/RoHS-compliant since:
06/11/2012

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Technical data	
Dimensions	
Width	12.5 mm
Height	99 mm
Depth	114.5 mm
Ambient conditions	
Ambient temperature (operation)	-20 °C ... 60 °C (Any mounting position)

Ambient temperature (storage/transport)	-40 °C ... 80 °C
Maximum altitude	≤ 2000 m
Permissible humidity (operation)	10 % ... 95 % (no condensation)
Noise immunity	EN 61000-6-2 When being exposed to interference, there may be minimal deviations.
Degree of protection	IP20

Input data

Non-load voltage	8 V DC ±10 %
Switching points (attenuated)	< 1.2 mA (blocking)
Switching points (unattenuated)	> 2.1 mA (conductive)

Output data

Switching output	Resistive (transistor, passive)
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Power supply

Nominal supply voltage	24 V DC
Supply voltage range	12 V DC ... 24 V DC -20 % ... +25 %
Power consumption	< 0.6 W

Connection data

Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	1.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	16
Stripping length	8 mm
Connection method	Spring-cage conn.

General

No. of channels	1
Status display	Green LED (supply voltage) LED yellow (switching state) Red LED (line errors)
Inflammability class according to UL 94	V0
Pollution degree	2
Surge voltage category	II

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Emitted interference	EN 61000-6-4
Housing material	PA 66-FR
Color	green
Electrical isolation input / output	375 V (Peak value in accordance with EN 60079-11)
Electrical isolation input / supply / T connector	375 V (Peak value in accordance with EN 60079-11)
Conformance	CE-compliant, additionally EN 61326
ATEX	Ex II (1) G [Ex ia Ga] IIC
	Ex II (1) D [Ex ia Da] IIIC
	Ex II 3G Ex nA IIC T4 Gc X
IECEX	[Ex ia Ga] IIC
	[Ex ia Da] IIIC
	Ex nA IIC T4 Gc
Functional safety (SIL)	SIL 2

Safety data

Output voltage U_o	≤ 9.6 V
Output current I_o	≤ 10 mA
Output power P_o	≤ 25 mW
Gas group	IIC
Max. external inductivity L_o	100 mH
Max. external capacity C_o	510 nF
Gas group	IIC
Max. external inductivity L_o	5 mH
Max. external capacity C_o	840 nF
Gas group	IIC
Max. external inductivity L_o	1 mH
Max. external capacity C_o	1.2 μ F
Safety-related maximum voltage U_m	253 V
Gas group	IIB
Max. external inductivity L_o	100 mH
Max. external capacity C_o	2.7 μ F
Gas group	IIB
Max. external inductivity L_o	5 mH
Max. external capacity C_o	4.4 μ F
Gas group	IIB

Max. external inductivity L _o	1 mH
Max. external capacity C _o	6.3 µF

Certificates / Approvals

Certification Ex: IECEX

Certification

Certifications applied for:

Accessories

Item	Designation	Description
General		
2865625	MACX MCR-PTB	Power and error message module
2924184	MACX MCR-PTB-SP	Power and error message module, spring-cage terminal blocks
2869728	ME 6,2 TBUS-2 1,5/5-ST-3,81 GN	DIN rail connector for DIN rail mounting. Universal for T-BUS housing. Gold-plated contacts, 5-pos.

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