PHŒNIX CONTACT

Controller - RFC 460R PN 3TX - 2700784

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High-availability Remote Field Controller with redundancy function, 3 x 10/100 Ethernet, PROFINET controller, IP20 protection, plug-in parameterization memory

Product Description

High-availability Remote Field Controller for PROFINET networks
When it comes to high-availability, distributed, and modular automation, Remote Field Controllers (RFCs) with IEC 61131 control intelligence, redundancy technology, and network connection are the ideal solution. Thanks to the integrated fiber optic-based redundancy function, you can reduce system downtimes, work cost-effectively, and also avoid potential hazards, e.g., in tunnels or at airports.

Your advantages

☑ The RFC 460R PN 3TX features:

☑ Fast startup and automatic configuration of all redundancy functions, thanks to AutoSync technology

☑ Uninterrupted process in the event of failure or when a controller is replaced

☑ Optimum device integration, thanks to PROFINET standards; redundancy for your future-proof Ethernet network

☑ High-resolution display for displaying status and error messages in plain text

☑ Uninterrupted visualization - thanks to redundancy-capable OPC server

☑ A distance of up to 80 km between the controllers via fiber optics; cost-optimized thanks to plug-in SFP modules

RoHS

PROFI NET®
AutoSync Technology
Designed by PHOENIX CONTACT

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 640589
GTIN	4046356640589

Technical data

Dimensions

Width	124 mm
Height	185 mm
Depth	190 mm

Ambient conditions

Degree of protection	IP20

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Technical data

Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C (from 45°C only with fan module)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	5 % ... 90 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 90 % (non-condensing)
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3000 m above sea level)
Shock	25g, Criterion 1, according to IEC 60068-2-27
Vibration (operation)	1g, Criterion 1, according to IEC 60068-2-6

Control system

Engineering tool	PC WORX
Programming languages supported	Programming in acc. with IEC 61131-3
Diagnostics tool	DIAG+, version 2.00 or higher

IEC 61131 runtime system

Engineering tool	PC WORX
Program memory	typ. 8 Mbyte
Mass storage	16 Mbyte
Retentive mass storage	120 kByte (NVRAM)
Number of control tasks	1
Realtime clock	Integrated (battery backup)

Data interfaces

Interface	Ethernet
Number	3
Connection method	RJ45 socket
Transmission speed	10/100 Mbps
Interface	Synchronization interface
Number	1
Connection method	SFP port
Transmission speed	1 Gbps
Interface	USB 2.0
Number	2
Connection method	USB type A, socket

PROFINET

Device function	PROFINET-Controller
Specification	Version 1.1
Update rate	min. 1 ms

Power supply

Power supply connection	Screw terminal blocks, plug-in
Typical current consumption	1 A

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Technical data

Power supply

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including ripple)
Power dissipation	max. 24 W

Mechanical design

Format	124 x 185 x 190 mm (W x H x D without fan)
	124 x 210 x 190 mm (W x H x D with fan)
Weight	1870 g
Note on weight specifications	without fan module
Weight	2010 g
Note on weight specifications	with fan module
Diagnostics display	yes
Controller redundancy	yes
Safety function	No

General data

Processor	Intel® Celeron® 927 UE 1.5 GHz

Standards and Regulations

Vibration (storage/transport)	1g, Criterion 1, according to IEC 60068-2-6
Shock	25g, Criterion 1, according to IEC 60068-2-27
Vibration (operation)	1g, Criterion 1, according to IEC 60068-2-6

Environmental Product Compliance

REACh SVHC	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME) 110-71-4
	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / EAC / cULus Listed

Ex Approvals

Approval details

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Approvals

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

EAC		EAC-Zulassung

EAC		RU *-DE.A*30.B.00238

cULus Listed	

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