

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.

Product Features

- ✓ 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
- ✓



AutoSync Technology
Designed by PHOENIX CONTACT

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	2120.0 GRM
Custom tariff number	85371091
Country of origin	Germany

Technical data

Note

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

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Dimensions

Width	124 mm
Height	185 mm
Depth	190 mm

Ambient conditions

Degree of protection	IP20
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

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

Data interfaces

Interface	Ethernet
Connection method	3x RJ45 sockets
Transmission speed	10/100 MBit/s
Interface	Synchronization interface
Connection method	SFP port
Transmission speed	1 GBit/s
Interface	Other interfaces
Connection method	2x USB

IEC 61131 runtime system

Programming tool	PC WORX
Processing speed	0.007 ms (1 K mix instructions)
	2 µs (1 K bit instructions)
Program memory	typ. 8 Mbyte (680 K instructions (IL))
Mass storage	16 Mbyte

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IEC 61131 runtime system

Retentive mass storage	120 kByte (NVRAM)
Number of data blocks	depends on mass storage
Number of timers, counters	depends on mass storage
Number of control tasks	16
Realtime clock	Integrated (battery backup)

Power supply

Power supply connection	Screw terminal blocks, plug-in
Typical current consumption	1 A
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including ripple)
Power dissipation	max. 24 W

Fieldbus function

Module classification	PROFINET controller
Processing speed	0.007 ms

Classifications

eCl@ss

eCl@ss 4.0	27240601
eCl@ss 4.1	27240601
eCl@ss 5.0	27242215
eCl@ss 5.1	27242207
eCl@ss 6.0	27242207
eCl@ss 7.0	27242207
eCl@ss 8.0	27242207

ETIM

ETIM 3.0	EC000236
ETIM 4.0	EC000236
ETIM 5.0	EC000236

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

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Approvals

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

Ex Approvals

Approvals submitted

Approval details

UL Listed 

cUL Listed 

EAC

EAC

UL Listed 

cUL Listed 

cULus Listed 

