RFC 460R PN 3TX - Controller

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

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	2700784
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR10
Product key	DRAABA

GTIN	4046356640589
Weight per piece (including packing)	2,100 g
Weight per piece (excluding packing)	1,870 g
Customs tariff number	85371091
Country of origin	DE

Technical data

Notes

Note on application

Note on application	Only for industrial use

Product properties

Product type	Controller
Product family	Remote Field Controller
Type	Stand-alone

Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Display

Diagnostics display	yes

System properties

Operating system	Windows® CE 6.0
Processor	Intel®Celeron® 927 UE 1.5 GHz

IEC 61131 runtime system

Program memory	typ. 8 Mbyte
Retentive data storage	120 kByte (NVRAM)
Data storage system	16 Mbyte
Number of data blocks	depending on data storage
Number of control tasks	1

PROFINET

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

Function

Diagnostics display	yes
Redundancy function	yes
Safety function	no

Functionality

Programming tool	PC Worx
Programming languages supported	Instruction list (IL)
	Symbolic flowchart (SFC)
	Ladder diagram (LD)
	Function block diagram (FBD)
	Structured text (ST)

System requirements

Diagnostics tool	DIAG+, version 2.00 or higher
Application interface	Device driver interface via TCP/IP sockets

Electrical properties

Maximum power dissipation for nominal condition	typ. 24 W (Without fan module)
Transmission medium	Copper
Maximum power dissipation for nominal condition	typ. 24 W (Without fan module)

Supply

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

Real-time clock

Real-time clock	Integrated (battery backup)

Connection data

Connection method	without

Interfaces

Web server	no

Ethernet

Bus system	RJ45
Number of interfaces	3
Connection method	RJ45 jack
Transmission speed	10/100 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)

Synchronization interface

Number of interfaces	1
Connection method	SFP
Transmission speed	1 Gbps
Transmission physics	Depending on the SFP module
Transmission length	up to 80 km (Depending on the fiber/SFP module used)

USB 2.0

Number of interfaces	2
Connection method	USB type A, socket

Dimensions

External dimensions

Width / Height / Depth	124 mm / 185 mm / 190 mm (without fan module)

	124 mm / 210 mm / 190 mm (With fan module)

Material specifications

Color	anthracite gray (RAL 7016)

Environmental and real-life conditions

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

Mounting

Mounting type	DIN rail mounting

Approvals

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UL Listed
Approval ID: E140324

cUL Listed
Approval ID: E140324

Classifications

ECLASS

ECLASS-13.0	27242207
ECLASS-15.0	27242207

ETIM

ETIM 10.0	EC000236

UNSPSC

UNSPSC 21.0	32151700

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	e26c3b55-47e1-45ef-8674-88e83dffae13

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