

# 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

## Commercial data

Item number	2700784
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR10
Product key	DRAABA
Catalog page	Page 53 (C-6-2019)
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

### Product properties

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

### Insulation characteristics

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

Diagnostics display	yes
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### System properties

Processor	Intel® Celeron® 927 UE 1.5 GHz
Retentive data storage	120 kByte (NVRAM)

### IEC 61131 runtime system

Program memory	typ. 8 Mbyte
Data storage system	16 Mbyte
Number of control tasks	1

### PROFINET

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

### Function

Diagnostics display	yes
Controller redundancy	yes
Safety function	No

### Functionality

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

### System requirements

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

### Electrical properties

Transmission medium	Copper
Maximum power dissipation for nominal condition	max. 24 W

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## 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

Realtime clock	Integrated (battery backup)
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## Connection data

Connection method	without
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## Interfaces

Web server	No
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## 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 grey (RAL 7016)
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
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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
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## Classifications

### ECLASS

ECLASS-11.0	27242207
ECLASS-12.0	27242207
ECLASS-13.0	27242207

### ETIM

ETIM 9.0	EC000236
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### UNSPSC

UNSPSC 21.0	32151700
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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