

# 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.

### Why buy this product

- ✓ 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



## Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 STK   |
| GTIN         | <br>4 046356 640589 |
| GTIN         | 4046356640589   |

## Technical data

### Note

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

### Dimensions

|        |        |
|--------|--------|
| Width  | 124 mm |
| Height | 185 mm |

# Controller - RFC 460R PN 3TX - 2700784

## Technical data

### Dimensions

|       |        |
|-------|--------|
| 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                            |
| Diagnostics display           | yes  |
| Controller redundancy         | yes  |

### 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        |

### IEC 61131 runtime system

|                         |                             |
|-------------------------|-----------------------------|
| Programming 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) |

# Controller - RFC 460R PN 3TX - 2700784

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### 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                                |

### General data

|           |                                   |
|-----------|-----------------------------------|
| Processor | Intel® Celeron® M ULV 423 800 MHz |
|-----------|-----------------------------------|

### Standards and Regulations

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

### Environmental Product Compliance

|            |   |
|------------|---|
| 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


|           |  |   |               |
|-----------|--|---|---------------|
| UL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 140324 |
|-----------|--|---|---------------|


|            |  |   |               |
|------------|--|---|---------------|
| cUL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 140324 |
|------------|--|---|---------------|

|     |  |               |
|-----|--|---------------|
| EAC |  | EAC-Zulassung |
|-----|--|---------------|

## Controller - RFC 460R PN 3TX - 2700784

### Approvals

|     |   |                          |
|-----|---|--------------------------|
| EAC |  | RU *-<br>DE.A*30.B.00238 |
|-----|---|--------------------------|

|              |   |  |
|--------------|---|--|
| cULus Listed |  |  |
|--------------|---|--|

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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>