

# RFC 4072S - Safety controller



1051328

<https://www.phoenixcontact.com/us/products/1051328>

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Safety controller (SPS), PLCnext Control; Programming: High-level language and IEC 61131-3; Operating system: Yocto/Linux® (real-time); Programming tool: PLCnext Engineer, Eclipse®, Visual Studio®, MATLAB®/ Simulink®; Processor: Intel® Core™ i5-6300U, 2x 2.4 GHz (Standard).

## Product description

The RFC 4072S is the first high-performance Remote Field Controller based on PLCnext Technology. It is also possible to use applications with the highest safety requirements in accordance with SIL 3 or PL e. Standard and safety programming in only one engineering tool, thanks to PLCnext Engineer.

## Your advantages

- Real-time-capable Linux operating system for deterministic and reliable execution of time-critical processes
- Supports numerous protocols such as: HTTP, HTTPS, FTP, OPC UA, SNTP, SNMP, SMTP, SQL, MySQL, DCP, etc. – for smooth communication with IT systems
- Direct connection to the Proficloud, the PLCnext Store and any cloud platforms – for seamless IoT integration of your applications
- Support for numerous fieldbus protocols (PROFINET, Modbus TCP/RTU, Ethernet/IP, etc.) for easy integration into existing automation technology systems and installations
- Maximum design freedom thanks to the combination of classic PLC programming with modern high-level languages such as C++, C#, or Python
- Meets the highest security requirements of industrial automation – for the protection of your applications and data

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1051328       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DR09          |
| Product key                          | DRADBA        |
| GTIN                                 | 4055626673400 |
| Weight per piece (including packing) | 3,250 g       |
| Weight per piece (excluding packing) | 2,850 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 | PLCnext Control |
| Type           | Stand-alone     |

#### Insulation characteristics

|                  |   |
|------------------|---|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1)   |
| Pollution degree | 2 (when installed in a control cabinet or housing with IP54 degree of protection or higher) |

#### Display

|                     |     |
|---------------------|-----|
| Diagnostics display | yes |
|---------------------|-----|

### System properties

|                         |         |
|-------------------------|---------|
| Trusted Platform Module | TPM 1.2 |
| Retentive data storage  | 2 Mbyte |

#### IEC 61131 runtime system

|                     |          |
|---------------------|----------|
| Program memory      | 16 Mbyte |
| Data storage system | 32 Mbyte |

#### INTERBUS-Master

|                           |  |
|---------------------------|--|
| Amount of process data () | max. 128 kByte (Input and output data) |
|---------------------------|--|

#### PROFINET

|                             |  |
|-----------------------------|--|
| Device function             | PROFINET controller, PROFINET device   |
| Update rate                 | min. 1 ms  |
| Conformance Class           | B  |
| Number of supported devices | max. 256   |
| Supported functions         | Topology detection<br>Automatic device replacement<br>Parameterizable alarm and startup behavior |
| Device ID                   | 014A <sub>hex</sub> / 176 <sub>dez</sub>   |
| Vendor ID                   | 00B0 <sub>hex</sub> / 176 <sub>dez</sub>   |

#### Function

|                     |     |
|---------------------|-----|
| Diagnostics display | yes |
| Redundancy function | no  |
| Safety function     | yes |

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## Functionality

|                                 |                              |
|---------------------------------|------------------------------|
| Programming languages supported | Symbolic flowchart (SFC)     |
|                                 | Ladder diagram (LD)          |
|                                 | Function block diagram (FBD) |
|                                 | Structured text (ST)         |
|                                 | C++                          |
|                                 | C#                           |
|                                 | Java                         |
|                                 | Python®                      |
| Simulink®                       |                              |

## System requirements

|                       |         |
|-----------------------|---------|
| Application interface | OPC UA® |
|-----------------------|---------|

## Electrical properties

|   |                                |
|---|--------------------------------|
| Power consumption                               | typ. 25 W (Without fan module) |
|   | max. 35 W (With fan module)    |
| Maximum power dissipation for nominal condition | max. 35 W (With fan module)    |
|   | typ. 25 W (Without fan module) |

## Supply

|                             |   |
|-----------------------------|---|
| Supply voltage              | 24 V DC   |
| Supply voltage range        | 19.2 V DC ... 30 V DC (including ripple (3.6 V <sub>pp</sub> )) |
| Power supply connection     | Screw terminal blocks, plug-in                                  |
| Typical current consumption | 1 A   |

## Real-time clock

|                            |                                   |
|----------------------------|-----------------------------------|
| Realtime clock             | integrated (capacitive buffering) |
| Description realtime clock | 1.73 s/day = 20 ppm at 25 °C      |

## Connection data

|                   |                |
|-------------------|----------------|
| Tightening torque | 0.5 ... 0.6 Nm |
|-------------------|----------------|

## COMBICON connector

|                                   |   |
|-----------------------------------|---|
| Conductor cross-section, rigid    | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section, flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section AWG       | 24 ... 12                                   |

## Interfaces

|            |     |
|------------|-----|
| Web server | yes |
|------------|-----|

## USB

|                      |                            |
|----------------------|----------------------------|
| Number of interfaces | 1                          |
| Connection method    | USB type A, male connector |

## Ethernet

|            |      |
|------------|------|
| Bus system | RJ45 |
|------------|------|

|                               |   |
|-------------------------------|---|
| Number of interfaces          | 4   |
| Connection method             | RJ45 jack   |
| Note on the connection method | Auto negotiation and auto crossing, auto polarity exchange  |
| Transmission speed            | 10/100/1000 Mbps (LAN 1/LAN 2, half duplex or full duplex)<br>10/100 Mbps (LAN3.1/LAN3.2 (internally switched), half duplex or full duplex) |

## Dimensions

### External dimensions

|                        |   |
|------------------------|---|
| Width / Height / Depth | 122 mm / 182 mm / 173 mm (without fan module)<br>122 mm / 220 mm / 173 mm (With fan module) |
|------------------------|---|

## Material specifications

|       |                 |
|-------|-----------------|
| Color | gray (RAL 7042) |
|-------|-----------------|

## Characteristics

### Safety data: EN ISO 13849

|                        |        |
|------------------------|--------|
| Performance level (PL) | max. e |
|------------------------|--------|

### Safety data: IEC 61508 - High demand

|                              |        |
|------------------------------|--------|
| Safety Integrity Level (SIL) | max. 3 |
|------------------------------|--------|

### Safety data: EN IEC 62061

|   |        |
|---|--------|
| Safety Integrity Level Claim Limit (SIL CL) | max. 3 |
|---|--------|

## Environmental and real-life conditions

### Ambient conditions

|  |  |
|--|--|
| Degree of protection   | IP20 (Manufacturers declaration, not evaluated by UL)  |
| Ambient temperature (operation)  | 0 °C ... 60 °C up to 2000 m above mean sea level (from 40 °C only with fan module)<br>0 °C ... 55 °C 2000 m ... 3000 m above mean sea level (With fan module only)<br>0 °C ... 50 °C 3000 m ... 4000 m above mean sea level (With fan module only) |
| Ambient temperature (storage/transport)  | -25 °C ... 70 °C   |
| Permissible humidity (operation)   | 10 % ... 95 % (non-condensing)   |
| Permissible humidity (storage/transport)   | 5 % ... 95 % (non-condensing)  |
| Shock (operation)  | 20g (in accordance with EN 60068-2-27/IEC 60068-2-27)  |
| Shock (storage/transport)  | 20g (in accordance with EN 60068-2-27/IEC 60068-2-27)  |
| Vibration (operation)  | 1g (in accordance with EN 60068-2-6/IEC 60068-2-6)   |
| Vibration (storage/transport)  | 1g (in accordance with EN 60068-2-6/IEC 60068-2-6)   |
| Air pressure (operation)   | 60 kPa ... 108 kPa (up to 4000 m above mean sea level)   |
| Air pressure (storage/transport)   | 58 kPa ... 108 kPa (up to 4500 m above mean sea level)   |
| Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37 | Use of the device in these ambient conditions is prohibited.   |

## EMC data

|                                 |   |
|---------------------------------|---|
| Electromagnetic compatibility   | Conformance with EMC Directive 2014/30/EU   |
| Conformance with EMC directives | Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2<br>Electrostatic discharge (ESD)EN 61000-4-2/IEC 61000-4-2<br>Criterion B, $\pm 6$ kV contact discharge, $\pm 8$ kV air discharge     |
|                                 | Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2<br>Electromagnetic fieldsEN 61000-4-3/IEC 61000-4-3 Criterion A,<br>Field intensity: 10 V/m   |
|                                 | Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2<br>Fast transients (burst)EN 61000-4-4/IEC 61000-4-4 Criterion B,<br>Supply lines: $\pm 2$ kV, Signal/data lines: $\pm 2$ kV          |
|                                 | Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2<br>Transient overvoltage (surge)EN 61000-4-5/IEC 61000-4-5<br>Criterion B, supply lines: $\pm 0.5$ kV, signal/data cables: $\pm 1$ kV |
|                                 | Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2<br>Conducted interferenceEN 61000-4-6/IEC 61000-4-6 Criterion A,<br>Test voltage 10 V   |
|                                 | Noise emission test in accordance with EN 61000-6-4/IEC 61000-6-4   |

## Mounting

|               |                   |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

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## Approvals

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### PROFINET

Approval ID: Z13529

### PROFINET

Approval ID: Z13530

### PROFIsafe

Approval ID: Z20352

### PROFIsafe

Approval ID: Z20353

### Cybersecurity Certificate

Approval ID: 968 CSP 1037.00 25



### cULus Listed

Approval ID: E238705



### Functional Safety

Approval ID: 01/205/5649.01/23

### FS Thermoprocess

Approval ID: 968 INS 799.01 25

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## Classifications

### ECLASS

|                   |          |
|-------------------|----------|
| ECLASS-13.0       | 27242207 |
| ECLASS-15.0       | 27242207 |
| ECLASS-15.0 ASSET | 27250101 |

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 32151700 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes                |
| Exemption                               | 6(c), 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.) | 4,4'-isopropylidenediphenol(CAS: 80-05-7) |
|                                     | Lead(CAS: 7439-92-1)                      |
| SCIP                                | 1a5f8f12-b6b0-49c6-a37e-9530122266de      |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 263.2 kg CO2e |
|---------|---------------|

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