

Safety controller - RFC 4072S - 1051328

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



PLCnext Control with 4 x 10/100/1000 Ethernet, PROFINET controller with integrated PROFIsafe safety controller, PROFINET device, IP20 degree of protection, pluggable parameterization memory

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 PLe. Standard and safety programming in only one engineering tool, thanks to PLCnext Engineer.

Your advantages

- ✓ Safety: highest level of safety of machinery, thanks to diversified processors and the support of up to 300 PROFIsafe devices
- ✓ PLCnext Technology for preferred programming languages and programming environments, open-source software, apps, PROFICLOUD, and soon, also PLCnext Store with real-time execution
- ✓ Performance: Use of one Intel® Core™ i5 dual-core processor and two powerful processors based on Arm architecture enables one of the best performance capabilities on the market
- ✓ Integrated PROFINET controller and PROFINET device
- ✓ Support for PROFIsafe Profile V2.6.1
- ✓ System networking M2M with OPC UA



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 673400
GTIN	4055626673400
Weight per Piece (excluding packing)	3,480.000 g
Custom tariff number	85371091
Country of origin	Germany

Safety controller - RFC 4072S - 1051328

Technical data

Note

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

Dimensions

Width	122 mm
Height	182 mm
Depth	173 mm
Note on dimensions	without fan module
Width	122 mm
Height	220 mm
Depth	173 mm
Note on dimensions	With fan module

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 40 °C up to 2000 m above mean sea level (Without fan module)
	0 °C ... 60 °C up to 2000 m above mean sea level (With fan module only)
	0 °C ... 55 °C 2000 m to 3000 m above mean sea level (With fan module only)
	0 °C ... 50 °C 3000 m to 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)
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)

Mechanical design

Weight	2850 g
Note on weight specifications	without fan module
Diagnostics display	yes
Controller redundancy	No
Safety function	yes

Data interfaces

Interface	USB
Number	1
Connection method	USB type A, male connector
Interface	Ethernet
Number	4

Safety controller - RFC 4072S - 1051328

Technical data

Data interfaces

Connection method	RJ45 jack
Transmission speed	10/100/1000 Mbps ()

IEC 61131 runtime system

Engineering tool	PLCnext Engineer
	Eclipse
Program memory	16 Mbyte
Mass storage	32 Mbyte
Retentive mass storage	2 Mbyte
Accuracy realtime clock	1.73 s/day = 20 ppm at 25 °C

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 ()
Power dissipation	max. 24 W

Fieldbus function

Amount of process data	max. 128 kByte (Input and output data)
Program memory	16 Mbyte

General data

Processor	Intel® Core™ i5-6300U 2x 2.4 GHz (Standard)
Operating system	Yocto/Linux

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Interference emission	Noise emission test as per EN 61000-6-4
Immunity to surge	Noise immunity test in accordance with EN 61000-6-2 Transient overvoltage (surge) EN 61000-4-5/IEC 61000-4-5
Immunity to burst	Noise immunity test in accordance with EN 61000-6-2 Fast transients (burst) EN 61000-4-4/IEC 61000-4-4 Criterion B; Supply lines: 2 kV; Signal/data lines: 2 kV
Immunity to EF	Noise immunity test in accordance with EN 61000-6-2 Electromagnetic fields EN 61000-4-3/IEC 61000-4-3 Criterion A, Field intensity: 10 V/m
Immunity to ESD	Noise immunity test in accordance with EN 61000-6-2 Electrostatic discharge (ESD) EN 61000-4-2/IEC 61000-4-2 Criterion B, 6 kV contact discharge, 8 kV air discharge
Immunity to conducted interference	Noise immunity test in accordance with EN 61000-6-2 Conducted interference EN 61000-4-6/IEC 61000-4-6 Criterion A, Test voltage 10 V
Vibration (operation)	1g (according to EN 60068-2-6/IEC 60068-2-6)

Safety controller - RFC 4072S - 1051328

Technical data

Standards and Regulations

Shock (operation)	20g (according to EN 60068-2-27/IEC 60068-2-27)
-------------------	---

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
------------	----------------

Classifications

eCl@ss

eCl@ss 10.0.1	27242207
eCl@ss 11.0	27242207
eCl@ss 4.0	27240601
eCl@ss 4.1	27240601
eCl@ss 5.0	27242700
eCl@ss 5.1	27242700
eCl@ss 6.0	27242200
eCl@ss 7.0	27242207
eCl@ss 9.0	27242207

ETIM

ETIM 2.0	EC000236
ETIM 3.0	EC000236
ETIM 4.0	EC000236
ETIM 6.0	EC000236
ETIM 7.0	EC000236

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	39122114
UNSPSC 18.0	39122114
UNSPSC 19.0	39122114
UNSPSC 20.0	39122114
UNSPSC 21.0	39122114

Approvals

Approvals

Safety controller - RFC 4072S - 1051328

Approvals

Approvals

UL Listed / cUL Listed / Functional Safety / PROFINET / UL Listed / cUL Listed / Functional Safety / PROFINET

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
-----------	--	---	---------------

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
------------	--	---	---------------

Functional Safety			01/205/5649.00/18
-------------------	--	--	-------------------

PROFINET			Z12861
----------	--	--	--------

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
-----------	--	---	---------------

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
------------	--	---	---------------

Functional Safety			01/205/5649.00/18
-------------------	--	--	-------------------

PROFINET			Z12861
----------	--	--	--------

Accessories

Accessories

Safety controller - RFC 4072S - 1051328

Accessories

Fan

Fan - RFC FAN MODULE - 2404085



Fan module for the RFC 480S PN 4TX and RFC 4072S Remote Field Controllers.

Parameterization memory

Program / configuration memory - SD FLASH 8GB PLCNEXT MEMORY - 1061701



Program and configuration memory for storing the application programs and other files in the file system of the PLC, plug-in, 8 GB.

Program / configuration memory - SD FLASH 2GB PLCNEXT MEMORY - 1043501



Program and configuration memory for storing the application programs and other files in the file system of the PLC, plug-in, 2 GB.

Programming

Software - PLCNEXT ENGINEER - 1046008



Engineering software platform for Phoenix Contact automation controllers. PLCnext Engineer is IEC 61131-3-compliant and is available free of charge under Downloads. Its functionality can be extended using paid add-ins. To do this, open the license configurator via the "Configure" button. [Kostenloser Download PLCnext Engineer Software](https://phoe.co/download_plcnext_engineer)
