

Safety controller - RFC 4072S - 1051328

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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 PL_e. 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



PLCnext Technology[®]
Designed by PHOENIX CONTACT



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 673400
GTIN	4055626673400
Weight per Piece (excluding packing)	2,000.000 g
Custom tariff number	85371091
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Safety controller - RFC 4072S - 1051328

Technical data

Dimensions

Width	122 mm
Height	182 mm
Depth	173 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 55 °C (from 40 °C only with fan module)
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)	80 kPa ... 108 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	58 hPa ... 108 kPa (up to 4500 m above mean sea level)

Mechanical design

Format	122 x 182 x 173 mm (W x H x D, without fan module)
	122 x 220 x 173 mm (W x H x D, with fan module)
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
Connection method	RJ45 socket
Transmission speed	10/100/1000 Mbps (100 Mbps (LAN 3.1 and LAN 3.2), 1000 Mbps (LAN 1, LAN 2))

IEC 61131 runtime system

Engineering tool	PLCnext Engineer
	Eclipse
Program memory	16 Mbyte
Mass storage	32 Mbyte
Retentive mass storage	2 Mbyte
Realtime clock	Integrated (battery backup)

Power supply

Power supply connection	Screw terminal blocks, plug-in
Typical current consumption	1 A
Supply voltage	24 V DC

Safety controller - RFC 4072S - 1051328

Technical data

Power supply

Supply voltage range	19.2 V DC ... 30 V DC (including ripple)
Power dissipation	max. 24 W

Fieldbus function

Number of supported devices	max. 256
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General data

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

Standards and Regulations

Vibration (operation)	1g (according to EN 60068-2-6/IEC 60068-2-6)
Shock (operation)	20g (according to EN 60068-2-27/IEC 60068-2-27)

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Classifications

eCl@ss

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 8.0	27242207
eCl@ss 9.0	27242207

ETIM

ETIM 2.0	EC000236
ETIM 3.0	EC000236
ETIM 4.0	EC000236
ETIM 5.0	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

Safety controller - RFC 4072S - 1051328

Approvals





Approvals

Approvals

Functional Safety / UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

Functional Safety		01/205/5649.00/18
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
cULus Listed		

Accessories

Accessories

Fan

Fan - RFC FAN MODULE - 2404085



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

Parameterization memory

Safety controller - RFC 4072S - 1051328

Accessories

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 its functionality can be expanded using add-ins.