

Safety controller - RFC 470S PN 3TX - 2916794

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>)




Remote field controller with 3 x 10/100 Ethernet, INTERBUS master, PROFINET controller with integrated PROFIsafe safety controller, PROFINET device, IP20 protection, plug-in parameterization memory

Your advantages

- ✓ Engineering with PC Worx (IEC 61131-3)
- ✓ Numerous protocols supported such as: HTTP, FTP, SNMP, SMTP, SQL, MySQL, etc.
- ✓ Integrated PROFINET controller and PROFINET device
- ✓ Integrated Ethernet interface
- ✓ Complete fieldbus master (8192 I/O points)
- ✓ Flash file system
- ✓ FTP server
- ✓ Integrated web server for visualization with WebVisit
- ✓ Safe analog value processing with SAFE AI and other components



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 436045
GTIN	4046356436045

Technical data

Note

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

Dimensions

Width	124 mm
Height	185 mm
Depth	190 mm

Safety controller - RFC 470S PN 3TX - 2916794

Technical data

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)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Air pressure (operation)	80 kPa ... 108 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3000 m above sea level)

Control system

Engineering tool	PC WORX
Programming languages supported	Programming in acc. with IEC 61131-3
Diagnostics tool	DIAG+, version 2.00 or higher

IEC 61131 runtime system

Engineering tool	PC WORX
Program memory	typ. 8 Mbyte
Mass storage	16 Mbyte
Retentive mass storage	240 kByte (NVRAM)
Number of control tasks	16
Realtime clock	Integrated (battery backup)

Fieldbus function

Amount of process data	max. 8192 Bit (INTERBUS)
Number of supported devices	max. 512 (of which 254 are remote bus devices/bus segments)
Number of devices with parameter channel	max. 126

Data interfaces

Interface	INTERBUS (Master)
Number	1
Connection method	D-SUB-9 female connector
Transmission speed	500 kBaud / 2 MBaud (can be switched)
Interface	Parameterization/operation/diagnostics
Number	1
Connection method	D-SUB 9 plug
Interface	Ethernet
Number	3
Connection method	RJ45 socket
Transmission speed	10/100 Mbps

PROFINET

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

Safety controller - RFC 470S PN 3TX - 2916794

Technical data

Direct I/Os

Input name	Digital inputs
Number of inputs	5
Connection method	14-pos. FLK pin strip
Connection technology	FLK cable connector (14-pos.)
Output name	Digital outputs
Number of outputs	3
Connection method	14-pos. FLK pin strip
Connection technology	FLK cable connector (14-pos.)

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

Mechanical design

Format	124 x 185 x 190 mm (W x H x D, without fan module)
	124 x 210 x 190 mm (W x H x D, with fan module)
Weight	2000 g
Note on weight specifications	without fan module
Weight	2200 g
Note on weight specifications	with fan module
Diagnostics display	yes
Controller redundancy	No
Safety function	yes

General data

Processor	Intel® Celeron® 927 UE 1.5 GHz
-----------	--------------------------------

Standards and Regulations

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

Environmental Product Compliance

REACH SVHC	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME) 110-71-4
	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Approvals

Approvals

Safety controller - RFC 470S PN 3TX - 2916794

Approvals


Approvals


Functional Safety / UL Listed / cUL Listed / Functional Safety / EAC / cULus Listed

Ex Approvals


Approval details

Functional Safety	IFA 1003001
-------------------	-------------

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
-----------	---	---	---------------

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
------------	---	---	---------------

Functional Safety	IFA 1001017
-------------------	-------------

EAC		RU *- DE.A*30.B.00238
-----	---	--------------------------

cULus Listed	
--------------	---

Phoenix Contact 2019 © - all rights reserved
<http://www.phoenixcontact.com>

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