

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

Product Features

- ✓ Engineering with PC Worx (IEC 61131-3)
- ✓ Numerous protocols supported such as: HTTP, FTP, SNTP, 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
- ✓



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	2360.0 GRM
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
-------------------------	---

Dimensions

Width	124 mm
-------	--------

Safety controller - RFC 470S PN 3TX - 2916794

Technical data

Dimensions

Height	185 mm
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)	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)

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

Data interfaces

Interface	INTERBUS (Master)
Connection method	D-SUB-9 female connector
Transmission speed	500 kBaud / 2 MBaud umschaltbar
Interface	Parameterization/operation/diagnostics
Connection method	V.24 (RS-232-C), D-SUB male connector, 10/100 Ethernet (RJ45), 2x USB
Interface	Ethernet
Connection method	3x RJ45 sockets
Transmission speed	10/100 MBit/s

IEC 61131 runtime system

Programming tool	PC WORX
Processing speed	0.005 ms (1 K mix instructions)
	1 µs (1 K bit instructions)
Program memory	typ. 8 Mbyte (680 K instructions (IL))
Mass storage	16 Mbyte
Retentive mass storage	240 kByte (NVRAM)
Number of data blocks	depends on mass storage
Number of timers, counters	depends on mass storage

Safety controller - RFC 470S PN 3TX - 2916794

Technical data

IEC 61131 runtime system

Number of control tasks	16
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
Supply voltage range	19.2 V DC ... 30 V DC (including ripple)
Power dissipation	

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
Module classification	INTERBUS master
Processing speed	0.005 ms

Direct I/Os

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

Classifications

eCl@ss

eCl@ss 4.0	27240409
eCl@ss 4.1	27240409
eCl@ss 5.0	27242707
eCl@ss 5.1	27242707
eCl@ss 6.0	27242207
eCl@ss 7.0	27242207
eCl@ss 8.0	27242207

ETIM

ETIM 3.0	EC000236
ETIM 4.0	EC000236



Safety controller - RFC 470S PN 3TX - 2916794

Classifications

ETIM

ETIM 5.0	EC000236
----------	----------

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43232401
UNSPSC 13.2	43201404

Approvals

Approvals

Approvals

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

Ex Approvals

Approvals submitted

Approval details

Functional Safety

Functional Safety

UL Listed 

cUL Listed 
--

EAC

Safety controller - RFC 470S PN 3TX - 2916794

Approvals

UL Listed 

cUL Listed 

EAC

cULus Listed 