Features

- · Interface between the I/O modules and the PCS/PLC
- · Com unit for 80 analog or 184 digital channels
- Communication via PROFIBUS DP •
- · Installation in suitable enclosures in Zone 1
- Module can be exchanged under voltage (hot swap)
- HART communication via PROFIBUS DP V1 or service bus
- Configuration via FDT 1.2 DTM
- · Configuration in run (CiR) for any PCS
- · Non-volatile memory for configuration and parameter settings
- · Self configuration in redundant systems
- · Permanently self-monitoring
- · Outputs drive to safe state in case of failures

Function

The PROFIBUS com unit forms the interface between the I/O modules on the backplane and the process control system.

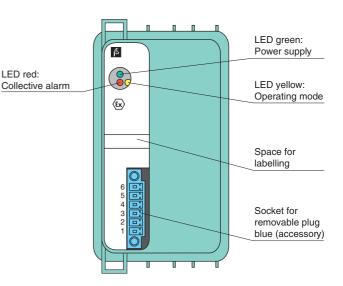
It supports all single width and dual width I/O modules. Thereby signals from NAMUR sensors, mechanical contacts, high-power solenoid drivers, power relays, sounders, and alarm LEDs are transported to the higher-level bus system.

The com unit can be easily configured via DTM and supports redundancy as well as HART.

Configuration in Run (CiR) enables configuration of a running system without a PROFIBUS restart, even in non-redundant systems.

USA: +1 330 486 0002

pa-info@us.pepperl-fuchs.com



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Singapore: +65 6779 9091

pa-info@sg.pepperl-fuchs.com

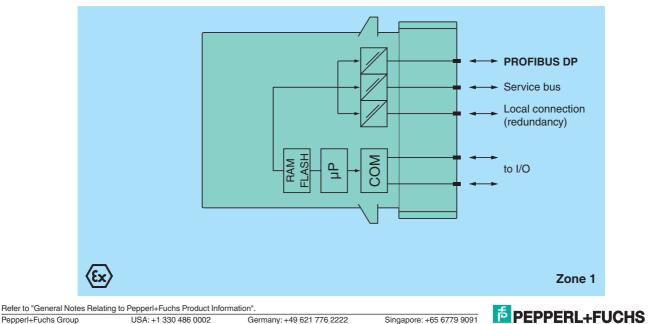
Assembly

Front view

Connection

Pepperl+Fuchs Group

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Germany: +49 621 776 2222

pa-info@de.pepperl-fuchs.com

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backplane bus
5 V DC , only in connection with the power supplies FB92**
1.8 W
1.8 W
1.0 W
PROFIBUS DP/DP-V1
wired to Ex e terminals via backplane
up to 1.5 MBit/s
PROFIBUS DP/DP V1 read/write services
\leq 125 (PROFIBUS), \leq 119 (service bus)
240 bytes input and (simultaneously) 240 bytes output
≤ 31 (RS-485 standard)
max. 3
all FB remote I/O modules
Standard: 80 analog, 184 digital Universal 2I2O: 48 analog, 184 digital Universal 4I4O: 60 analog, 120 digital
≤ 1000 m (FOL, 1.5 MBaud), ≤ 1000 m (copper cable, 187.5 kBd), ≤ 200 m (copper cable, 1.5 MBd)
via configuration software
0 126
(factory standard setting: 126)
CGV61710.gsd/gse
via PROFIBUS or service bus
backplane bus
via front connector
LED green (power supply): On = operating, fast flash = cold start, slow flash = HCIR loading active LED red (collective alarm): On = internal fault, flashing = no PROFIBUS connection LED yellow (operating mode): flashing 1 (1:1 ratio) = active, normal operation; flashing 2 (7:1 ratio) = active, simulation
EN 61326-1
NE 21
IEC 60529
IEC 61158-2
EN 60068-2-14
EN 60068-2-27
EN 60068-2-6
EN 60068-2-42
EN 60068-2-56
-20 60 °C (-4 140 °F)
-25 85 °C (-13 185 °F)
95 % non-condensing
-
shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18
frequency range 10 150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration \pm 0.075 mm/1 g; 10 cycles frequency range 5 100 Hz; transition frequency: 13.2 Hz amplitude/acceleration \pm 1 mm/0.7 g; 90 minutes at each resonance
designed for operation in environmental conditions acc. to ISA-S71.04-1985, severity level G3
IP20 (module), a separate housing is required acc. to the system description
via backplane
via backplane approx. 750 g
approx. 750 g

Release date 2018-10-04 15:38 Date of issue 2018-10-04 257796_eng.xml

Refer to "General Notes Relating to Pepperl+Fuchs Product Information". Pepperl+Fuchs Group www.pepperl-fuchs.com

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Germany: +49 621 776 2222 pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 pa-info@sg.pepperl-fuchs.com



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Marking	😥 ll 2(1) G Ex d [ia Ga] IIC Gb
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2009 EN 60079-1:2007 EN 60079-11:2007 EN 60079-26:2007 EN 61241-11:2006
International approvals	
ATEX approval	PTB 97 ATEX 1075
EAC approval	Russia: RU C-IT.MIII06.B.00129
Marine approval	
Lloyd Register	15/20021
DNV GL Marine	TAA0000034
American Bureau of Shipping	T1450280/UN
Bureau Veritas Marine	22449/B0 BV
General information	
System information	The module has to be mounted in appropriate backplanes (FB92**) in Zone 1, 2, or outside hazardous areas. Observe the corresponding EC-type examination certificate.
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.

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