## Features

- Galvanic Isolation I.S. to non-I.S. Port
- 10/100 MBit/s according to IEEE 802.3/.3u
- Installation in Zone 2, Ethernet in Zone 1 or Zone 0
- · Standard Ethernet patch or crossover cable
- DIN-Rail mounted and OEM Version

#### Function

The Ethernet Isolator is an intrinsically safe isolated barrier. It enables cost effective and simple installation in hazardous areas up to Zone 0. It supports high-speed Ethernet and can be mounted in Zone 2.

At each end of the trunk, an Ethernet Isolator is installed. In combination, they provide the intrinsically safe energy limitation. The Ethernet Isolator offers a wire-based alternative to wireless LAN, fiber optic solutions, and Ex e installations.

In safe area applications, a single Ethernet Isolator can be used for galvanic isolation. The Ethernet Isolator is compatible with all IEEE standards. It provides high noise immunity and low heat dissipation in a compact housing.



CE (Ex)

Assembly



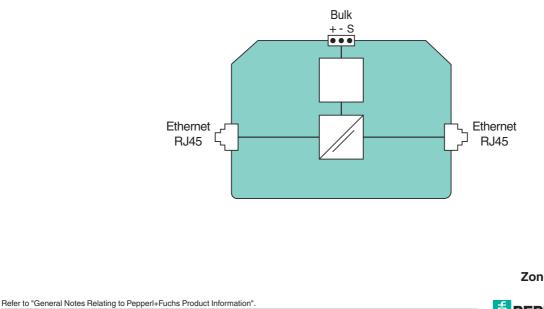
#### Connection

Pepperl+Fuchs Group

www.pepperl-fuchs.com

USA: +1 330 486 0002

pa-info@us.pepperl-fuchs.com



Zone 2/Div. 2



Germany: +49 621 776 2222 S pa-info@de.pepperl-fuchs.com pa-inf 1

19.2 35 V DC
150 100 mA
3 W
10 BASE-T/100 BASE-TX
10 BASE-1/100 BASE-TX
2 x RJ-45 , IEC 60603-7
socket; TIA/EIA-568-B
10/100 Mbit/s , Auto-Negotiation
Half/Full Duplex
CAT5e S/FTP AWG 24, Installation cable, L/R ratio max. 10 $\mu$ H/ $\Omega$ of all strand combinations
typ. 100 m/20 °C
typ. 200 m/20 °C
$\leq 2$ in series connection
green: Power on
yellow: communication active
yellow ON: Transfer rate 100 MBit/s , OFF: 10 MBit/s
EN 61326-1:2013
EN 50020
IEC 60529
DIN IEC 721
EN 60068-2-27
EN 60068-2-6
IEEE 802.3 , IEEE 802.3u
-40 60 °C (-40 140 °F)
-40 85 °C (-40 185 °F)
≤ 95 % non-condensing
15 g 11 ms
1 g 10 150 Hz
max. 2, according to IEC 60664
Terminals
up to 2.5 mm <sup>2</sup>
Polyamide PA 66
IP20 according to EN 60529
195 g
DIN rail mounting
PTB 07 ATEX 2025 X
n, 🚯 II (1) G [Ex ia Ga] IIB ,
🐼 II (1) D Ex [ia Da] IIIC ,
<ul> <li>⟨ Ex nA [ia Ga] IIB T4 Gc</li> <li>⟨ Ex nA [ia IIIC Da] IIB T4 Gc</li> </ul>
$\langle \epsilon x \rangle$ I (M1) [Ex ia Ma] I
253 V AC
EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010
EN 00070 0.2012, EN 00070 11.2072, EN 00070-10.2010
CSA 15 70016295
CSA 15.70016295
116-B032
116-B032

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information". USA: +1 330 486 0002 pa-info@us.pepperl-fuchs.com

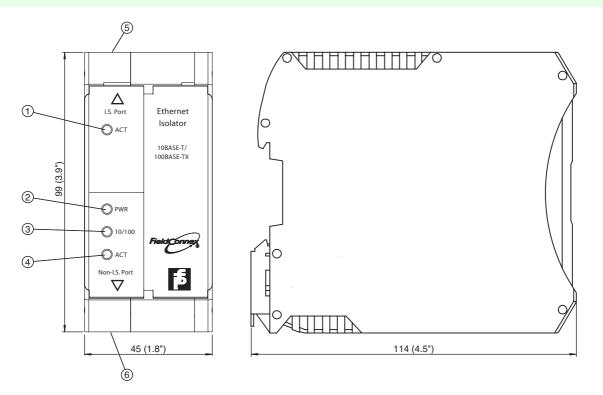
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Singapore: +65 6779 9091 pa-info@sg.pepperl-fuchs.com



2

### Dimensions

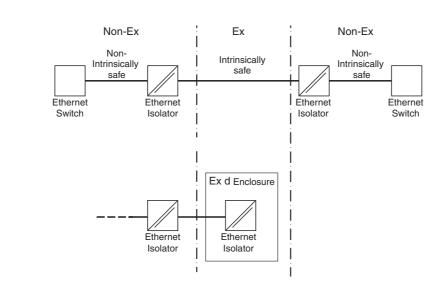


#### Description:

- 1 LED Communication active intrinsically safe port
- 2 LED Power
- З LED Transfer rate

### Installation examples

- 4 LED Communication active non-intrinsically safe port
- 5 Intrinsically safe connector female
- Non-Intrinsically safe connector female 6



Installation notes see manual.

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# **Ethernet Cabel Overview for Interconnection**

The cross-table below gives a general idea which Ethernet cable has to be used for interconnection of two Ethernet Isolators or an Ethernet Isolator to another device.

	Ethernet Isolator I.Sport	Ethernet Isolator non-I.Sport
Ethernet Isolator I.Sport	Crossover cable	not allowed
Switched standard-port	not allowed	Crossover cable
Switch uplink-port	not allowed	Standard patch cable
Notebook	not allowed	Standard patch cable
Workstation	not allowed	Standard patch cable
Device with auto-crossover	not allowed	Standard patch cable
functionality		

