



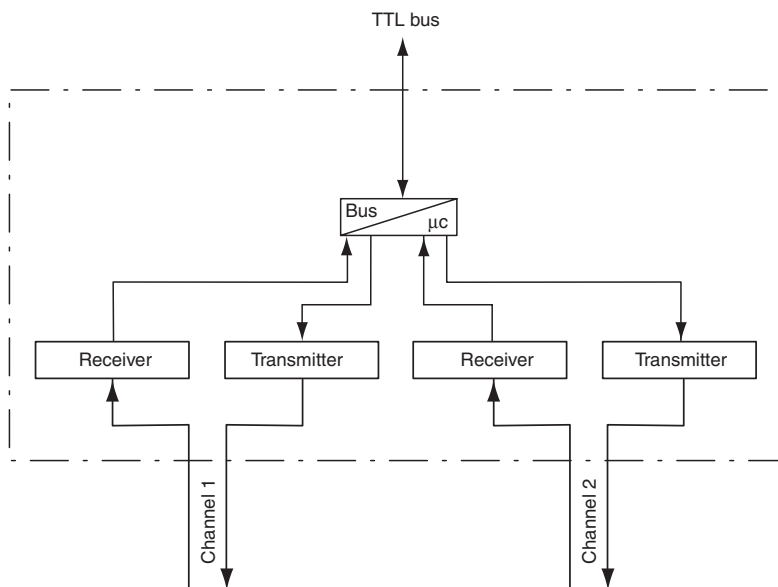
- Converts the TTL signals of the ControlNet copper/LWL adapter into LWL signals
- LWL channels: EEx ia IIC
- Device installation in zone 1, zone 2 or zone 22
- Transfer range up to 3 km
- Transfer rate 5 Mbits/s
- Two bi-directional LWL connections
- Power supply channel via the copper/LWL adapter

**Function**

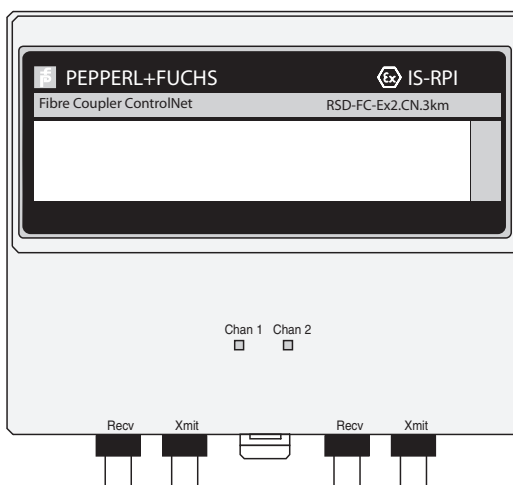
This component is a simple TTL to LWL (light wave guide) or LWL to TTL converter. It converts TTL signals of the copper/LWL adapter into LWG signals and vice versa.

The module has two bi-directional channels and is suitable for LWL transmission distances of up to 3 km.

**Connection**



**Composition**



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<b>Supply</b>	
Connection	30-pin bus connector
<b>Internal bus</b>	
Connection	TTL bus
Interface	manufacturer specific bus
<b>External bus</b>	
Connection	optical wave guide (LWL)
Interface	ControlNet international version 1.5, intrinsically safe
Transfer rate	5 MBit/s
LWL Type	62,5/125 micron
LWL connection	ST (ceramic)
LWL wave length	1300 nm
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2004/108/EC	EN 61326-1:2006
Explosion protection	
Directive 94/9/EC	EN 60079-0: 2006, EN 60079-11: 2007 , EN 60079-26:2007
<b>Standard conformity</b>	
Insulation coordination	EN 50178
Electrical isolation	EN 60079-11:2007
Electromagnetic compatibility	NE 21:2006
Protection degree	IEC 60529
Climatic conditions	DIN IEC 721
<b>Ambient conditions</b>	
Classification	3K3
Ambient temperature	-20 ... 70 °C (253 ... 343 K)
Storage temperature	-20 ... 100 °C (253 ... 373 K)
Relative humidity	95 % non-condensing
Shock resistance	15 g peak, 11 ms period
Vibration resistance	2 g , 10 ... 500 Hz according to IEC 60068-2-6
Damaging gas	acc. to ISA-S71.04-1985, severity level G3
<b>Mechanical specifications</b>	
Connection type	optical wave guide (LWL)
Protection degree	IP20, for in-situ installation a separate housing is required with a minimum of IP54
Mass	approx. 140 g
Mounting	DIN rail mounting
<b>Data for application in conjunction with hazardous areas</b>	
EC-Type Examination Certificate	DMT 99 ATEX 010 X , for additional certificates see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a>
Group, category, type of protection	⊕ II (1)2G EEx ia/ib IIB/IIC
Temperature class	T4
Supply	only in connection with RSD-CFA-Ex.CN
Internal bus	customer specific
Statement of conformity	
Group, category, type of protection, temperature classification	⊕ II 3D IP54 T 90°C
Electrical isolation	
Internal/external bus	safe galvanic isolation acc. to EN 60079-11:2007
Internal bus/power supply	no electrical isolation
External bus/power supply	safe galvanic isolation acc. to EN 60079-11:2007

**Supplementary information**

EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity and instructions have to be observed. For information see [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com).

**Note**

You can find light wave guides and the related LWL connecting accessories in the relevant ControlNet catalogues of Rockwell Automation/Allen-Bradley.

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