

The data exchange coupler transfers the input process image data to the output process image of the coupled partner. The data exchange coupler is a variant of the LON[®] fieldbus coupler.

Applications:

- **Peer to Peer** one master and one slave
- **Broadcast** one master and several slaves

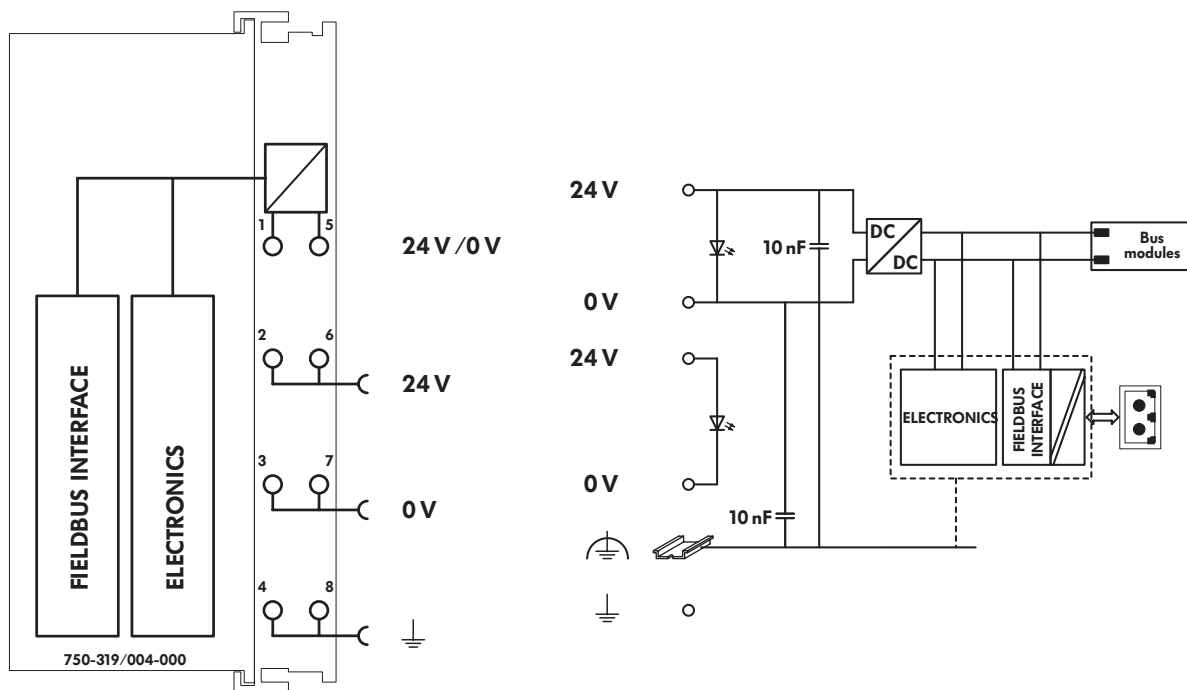
The coupler, together with I/O modules, is a fieldbus node which is connected to other nodes by means of a twisted wire pair. The coupler can also be integrated into existing LON[®] networks if appropriate node addresses are available.

The coupler automatically creates the process image using the types and widths of data of the connected I/O modules. The input process image is transferred to the output process image of the partner or partners.

The monitoring system switches digital outputs off or stores the last analog value if the connection to the coupled partner is interrupted longer than 1 second.

LON[®] is a registered trademark of Echelon Corporation.

Description	Item-No.	Pack.-unit pcs	System Data	
Peer to Peer Coupler	750-319/004-000	1	No. of nodes	64 without repeater 127 with repeater
			Transmission medium	Twisted pair - FTT
			Max. length of fieldbus segment	free topology 500m, bus topology 2700m
			Topology	in accordance with LON specification
			Baud rate	78 kbps
			Buscoupler connection	2-pole male connector, series 231 (MCS) female connector (231-302) is included



Technical Data		General specifications	
Max. no. of I/O modules	62	Operating temperature	0 °C ... +55 °C
Digital signals	max. 248 (Inputs and Outputs)	Wire connection CAGE CLAMP®	0.08 mm² ... 2.5 mm²; AWG 28 ... 14
Analog signals	max. 124 (Inputs and Outputs)		8 ... 9 mm / 0.33 in stripped length
Config. possibility	via PC with LON Interface	Dimensions (mm) W x H x L	51 x 65* x 100
Voltage supply	DC 24 V (-15% ... +20%)		* from upper edge of DIN 35 rail
Input current max.	500 mA at 24 V	Weight	ca 180 g
Efficiency of the power supply	87%	Storage temperature	-25 °C ... +85 °C
Internal current consumption	300 mA at 5 V	Relative air humidity	95% no condensation
Total current for I/O modules	1700 mA at 5 V	Vibration and shock resistance	acc. to IEC 60068-2-6
Isolation	500 V system / supply	Degree of protection	acc. to IEC 60068-2-27
Voltage via power jumper contacts	DC 24 V (-15% ... +20%)	EMC CE -Immunity to interference	IP 20
Current via power jumper contacts max.	DC 10 A	EMC CE -Emission of interference	acc. to EN 50082-2 (1996)
Transceiver	FTT 10 A		acc. to EN 50081-1 (1993)
		Approvals	
		UL_{IS}	see pages 1.10 ... 1.13
			Class I Div2 ABCD T4A
		Conformity marking	CE
		Accessories	
		Item-No.	Pack.-unit pcs
Miniature WSB quick marking system			
plain		248-501	5
with marking		see pages 1.174 ... 1.175	

Subject to design changes