

Data sheet

750-319

LON FIELDBUS COUPLER 78 kbps CARRIER RAIL DIN 35 CAGE CLAMP CONNECTION



Technical data

Package size 1 piece.

No. of nodes	64 without repeater 127 with repeater
Transmission medium	Twisted pair - FTT
Max. length of fieldbus segment	500 m (Free topology) 2700 m (Bus-topology)
Topology	acc. LON - specification
Data transmission rate (kbps)	78 kbps
Buscoupler connection	2 pole male connector, series 231 (MCS) female connector (231-302) is included
UL 508	E175199, UL 508
Conformity marking	CE
Max. no. of I/O modules	62
Digital signals	max. 248 (in- and output)
Analog signals	max. 124 (in- and output)
Configuration	via PC with LON-Interface
Voltage supply	DC 24 V (-15% / + 20%)
Input current (max)	500 mA
Efficiency of the power supply	87 %
Internal current consumption	300 mA
Total current for the I/O modules	1700 mA
Isolation	500 V system / supply
Voltage via power jumper contacts (max)	DC 24 V (-15% / + 20%)
Current via power jumper contacts (max)	DC 10 A
Transceiver	FTT 10 A
Operating temperature	0 °C ... + 55 °C

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Storage temperature	-25 °C ... +85 °C
Relative air humidity	95 %
Vibration resistance	acc. IEC 60068-2-6
Shock resistance	acc. IEC 60068-2-27
Degree of protection	IP 20
EMC immunity to interference	acc. EN 50082-2 (96)
EMC emission of interference	per EN 50081-1 (93)
Cross section from [mm ²]	0.08 mm ²
Cross section to [mm ²]	2.5 mm ²
Cross section from [AWG]	28 AWG
Cross section to [AWG]	14 AWG
Weight	200 g
Color	light gray
Height	65 mm
Height	2.56 in
Width	51 mm
Width	2.008 in
Depth	100 mm
Depth	3.937 in
Strip length from	8 mm
Strip length to	9 mm
Strip length	0.33 in
Manuals	

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Approval	Voltage	Current	Approval number	Notes
cULus	24		E175199	

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Accessories

Item number

ALUMINUM CARRIER RAIL 35 X 7.5 MM, 1.5 MM / 0.059 IN THICK	210-196
COPPER CARRIER RAIL 35 X 15 MM, 2.3 MM / 0.091 IN THICK	210-198
END MODULE CARRIER RAIL DIN 35	750-600
Individual wire jumpers	individual jumper
MARKERS FOR GROUP MARKER CARRIERS MARKER CARD DIN A4 (160 MARKERS)	750-100
MINIATURE WSB QUICK MARKING STRIPS PLAIN	248-501
MINIATURE WSB QUICK MARKING STRIPS PLAIN	248-501/000-002
MINIATURE WSB QUICK MARKING STRIPS PLAIN	248-501/000-005
MINIATURE WSB QUICK MARKING STRIPS PLAIN	248-501/000-006
MINIATURE WSB QUICK MARKING STRIPS PLAIN	248-501/000-007
MINIATURE WSB QUICK MARKING STRIPS PLAIN	248-501/000-012
MINIATURE WSB QUICK MARKING STRIPS PLAIN	248-501/000-017
MINIATURE WSB QUICK MARKING STRIPS PLAIN	248-501/000-023
MINIATURE WSB QUICK MARKING STRIPS PLAIN	248-501/000-024
Open individual wire jumpers ends	individual jumper open end
PROFINET IO FIELDBUS COUPLER 100 Mbit	750-340
PROFINET PROGRAMMABLE FIELDBUS CONTROLLER 100 Mbit	750-840
SCREWDRIVER Type 1, bar (2,5 x 0,4) mm	210-119
SCREWDRIVER Type 2, bar (3,5 x 0,5) mm	210-120
SCREWDRIVER WITH PARTIALLY INSULATED SHAFT Type 1, bar (2,5 x 0,4) mm	210-619
SCREWDRIVER WITH PARTIALLY INSULATED SHAFT Type 2, bar (3,5 x 0,5) mm	210-620
SCREWLESS END STOP 10 MM / 0.394 IN WIDE	249-117
SHIELD CLAMPING SADDLE 11 MM / 0.433 IN WIDE	790-108
SHIELD CLAMPING SADDLE 19 MM / 0.741 IN WIDE	790-116
SHIELD CLAMPING SADDLE 27 MM / 1.053 IN WIDE	790-124
SHIELD CLAMPING SADDLE 43 MM / 1.677 IN WIDE	790-140
STEEL CARRIER RAIL 35 X 15 MM, 1.5 MM / 0.059 IN THICK	210-114
STEEL CARRIER RAIL 35 X 15 MM, 1.5 MM / 0.059 IN THICK	210-197
STEEL CARRIER RAIL 35 X 15 MM, 1.5 MM / 0.059 IN THICK	210-506
STEEL CARRIER RAIL 35 X 15 MM, 1.5 MM / 0.059 IN THICK	210-508
STEEL CARRIER RAIL 35 X 15 MM, 2.3 MM / 0.091 IN THICK	210-118
STEEL CARRIER RAIL 35 X 15 MM, 2.3 MM / 0.091 IN THICK	210-548
STEEL CARRIER RAIL 35 X 7.5 MM, 1 MM / 0.039 IN THICK	210-112
STEEL CARRIER RAIL 35 X 7.5 MM, 1 MM / 0.039 IN THICK	210-113
STEEL CARRIER RAIL 35 X 7.5 MM, 1 MM / 0.039 IN THICK	210-504
STEEL CARRIER RAIL 35 X 7.5 MM, 1 MM / 0.039 IN THICK	210-505
STEEL IP65 ENCLOSURES 10/100 Mbit/s	750-841/025-000
STEPPER MODULE FOR THE WAGO-I/O-SYSTEM 750	750-670

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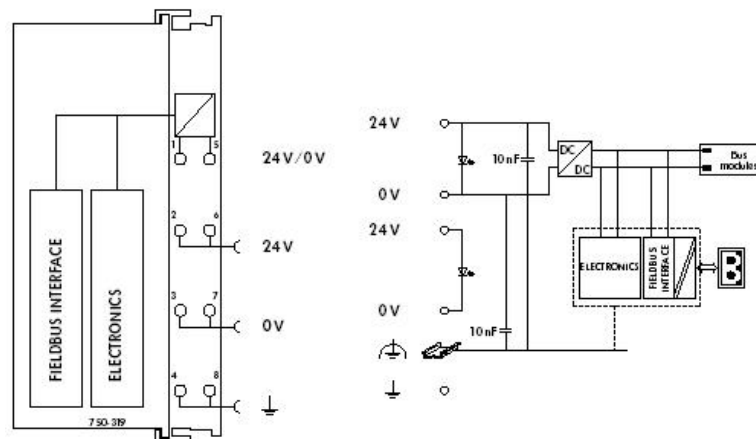
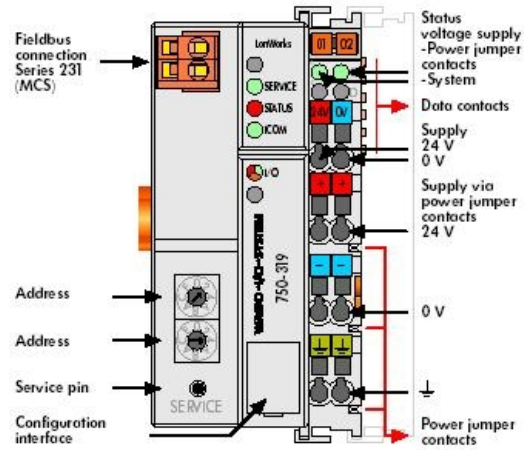
WAGO RADIO ADAPTER

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LON FIELDBUS COUPLER 78 kbps CARRIER RAIL DIN 35 CAGE CLAMP CONNECTION

This buscoupler allows connection of the WAGO-I/O-SYSTEM to the LON® fieldbus using FTT (Free Topologie Transceiver).

The buscoupler is capable of supporting all bus modules. The buscoupler automatically configures, creating a local process image which may include analog, digital or specialty modules.

The following LNS compliant Plug-ins are available:

- WAGO *TOPLON®-PRIO* (Programmable Remote I/O) is the interface between the I/Os of the fieldbus coupler and the LON® network.
 - Processing of up to 248 digital or 124 analog inputs /outputs
 - To each network variable any SNVT can be assigned
 - A maximum of 52 network variables, types available NVI /NVOs: 0/52; 20/32; 26/26; 32/20; 52/0)

- WAGO *TOPLON®-IF* (Installation Functions) with ready-to-use applications in any combination. For example; for stairwell light control, ambient light control, touch control dimmer, and window blind control.
 - Processing of up to 48 digital inputs /outputs
 - 48 network variables of the SNVT_switch type are available.

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