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LON-WA1/B2-AD230

## LON-WA1/B2-AD230

### COMMUNICATION INTERFACE FOR EXCHANGING VARIABLES VIA LONWORKS

Functional modules designed for the monitoring of motorised fire dampers

- Easy integration into higher level systems due to standard network variables (SNVT)
- Programming is based on LonMark functional profile 110.01, 'Fire and Smoke Damper Actuator'
- Direct communication between modules (decentralised intelligence)
- High transmission reliability and data integrity
- Network can easily be expanded (free topology)

## Application



### Application

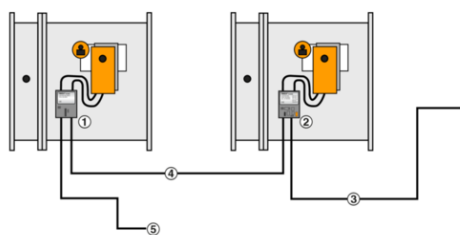
- Connection box LON-WA1/B2-AD230, with an integral power supply unit, is used to connect a second fire damper, that is fitted with a 24 V plug-in actuator, to the LON-WA1/B2 module; the connection box is supplied with 230 V 50/60 Hz voltage from the mains.
- The connection box is connected to the LON-WA1/B2 module with an 8-pole cable.
- The terminals have numbers to facilitate wiring.

## TECHNICAL INFORMATION

### Functional description

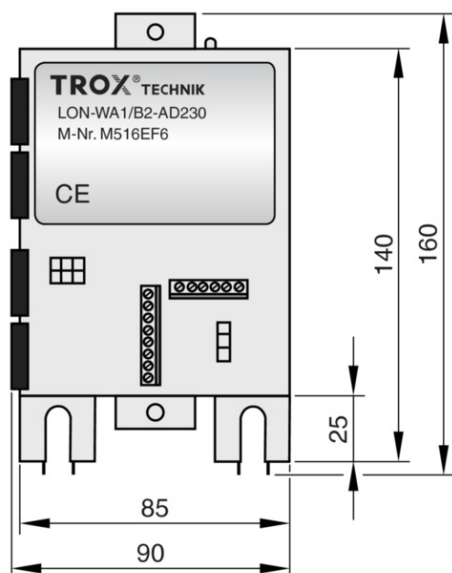
Connection box LON-WA1/B2-AD230 is used to connect a second fire damper, that is fitted with a 24 V plug-in actuator, to the LON-WA1/B2 module. Connection box LON-WA1/B2-AD230 is supplied with 230 V 50/60 Hz voltage from the mains. The integral power supply unit provides the 24 V supply voltage for the actuators and for the LON-WA1/B2 module. An 8-pole cable is used to transmit information on the end positions between the components, to transmit the control input signal for the actuator, and to provide 24 V. The LON-WA1/B2 software allows for each damper to be integrated independently with the LON network.

### Control input signal LON-WA1/B2-AD230



- ① LON-WA1/B2-AD230, plug-in module for 24 V AC actuators
- ② LON-WA1/B2, plug-in module for 24 V AC actuators
- ③ LON FTT 10A twisted pair
- ④ 8-wire cable
- ⑤ Supply voltage 230 V AC

### Module LON-WA1/B2-AD230



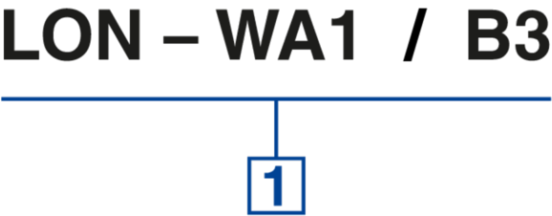
Input voltage	200 – 240 V AC, 50/60 Hz; double terminals for looping through
Output voltage	24 V AC
Output current	750 mA
Protection level	IP 54
Operating temperature	-10 to 60 °C
Terminals	Actuator control: 3-pole AMP MATE-N_LOK socket; actuators for position indication: 6-pole AMP MATE-N_LOK socket
Connection LON-WA1/B2	Clamp terminals, 90°, for 0.08 – 2.5 mm²
Dimensions (B × H × T)	≈ 90 × 160 × 54 mm
Material	Plastic

Standard description (characteristics)

Connection box with integral 230 V/24 V AC/DC power supply unit for connecting a second motorised fire damper (24 V) to the LON-WA1/B2; the 24 V voltage for the actuators and the LON-WA1/B2 is provided by the integral power supply unit. The damper actuator is connected with an AMP Mate-N-LOK plug. Can be attached to the fire damper with a mounting bracket. An 8-pole cable (by others) is required to connect LON-WA1/B2-AD230 with LON-WA1/B2.

Connections:

- 8-pole terminal strip for the connection to LON-WA1/B2
- 3-pole AMP-Mate-N-LOK socket
- 6-pole AMP-Mate-N-LOK socket
- 6-pole plug connector for the mains (230 V)
- Supply voltage 230 V AC
- Protection level IP 54



1 Module

- LON-WA1/B3** Module for controlling up to two actuators
- LON-WA1/B2-AD** Connection box for connecting the second actuator
- LON-WA1/B2-AD230** Connection box with integral 24 V power supply unit for connecting the second actuator
- LON-WA1/FT3** Module for the control of up to four actuators
- LON-WA4/B** Module for capturing up to four damper end positions