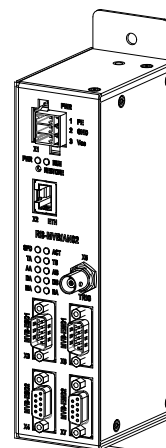


RB-MVB/AN02

MVB line analyzer

- 1 × MVB EMD and ESD double-line device attachment
- MVB designed in accordance with IEC 61375-1 ed 2.0
- 1 × Ethernet 10/100 Mbps RJ45
- Power supply 24 V DC
- Design meets the EN 50155 standard



TECHNICAL DATA

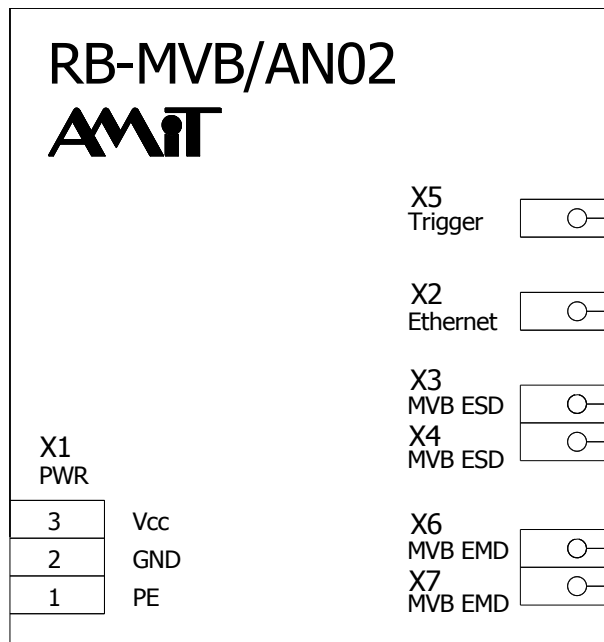
MVB	1 × (2 redundant lines)
Class	Class 1
Communication speed	1.5 Mbps ±0.01 %
Medium type	EMD and ESD
Galvanic separation	Yes
Galvanic separation strength	500 V AC / 1 minute *)
Connection	2 × 2 D-sub DE-9 (concatenation), connector fixing by M3 bolt
Ethernet	1 ×
Transmissions rate	10/100 Mbps
Galvanic separation	Yes
Galvanic separation strength	500 V AC / 1 minute *)
Connection	RJ45
Trigger out	1 ×
Voltage level	5 V
Output impedance	50 Ω
Connection	BNC
Power supply	16.8 V DC to 33.6 V DC
Power consumption	Max. 0.6 A at 24 V DC
Others	
Cover protection rate	IP20
Operating temperature	-40 °C to 70 °C
Storage temperature	-40 °C to 70 °C
Max. ambient humidity	< 95 % non-condensing
Mounting	2 × Ø 6 mm hole
Weight	0.88 kg
Dimensions (w × h × d)	(50 × 228 × 113) mm

*) Insulation must not be used for dangerous voltage separation

ORDERING INFORMATION

RB-MVB/AN02	MVB line analyzer, WAGO connector counterpart, Certificate of product quality and completeness, routine test report, insulation test report
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RECOMMENDED DIAGRAM SYMBOL



CONNECTOR X1 (POWER SUPPLY)

Pin	Signal	Meaning
1	PE	Module frame
2	GND	Power supply, ground
3	Vcc	Power supply, +24 V DC

CONNECTOR X2 (ETHERNET)

Pin	Signal	Meaning
1	Tx+	Positive data transmit signal
2	Tx-	Negative data transmit signal
3	Rx+	Positive data receive signal
4	NC	Not used
5	NC	Not used
6	Rx-	Negative data receive signal
7	NC	Not used
8	NC	Not used

CONNECTOR X5 (TRIGGER)

Pin	Signal	Meaning
1	TRIG_OUT	Trigger output
2	GND_TRIG	Trigger ground, connect with PE

CONNECTORS X3 AND X4 (MVB-ESD)

Pin	Signal	Meaning
1	A.Data_P	Positive signal of line A
2	A.Data_N	Negative signal of line A
3	–	Not used
4	B.Data_P	Positive signal of line B
5	B.Data_N	Negative signal of line B
6	A1_0V	External terminator power supply
7	B1_0V	External terminator power supply
8	A1_5V	External terminator power supply
9	B1_5V	External terminator power supply
Shield	SH_MVB	Connected to PE

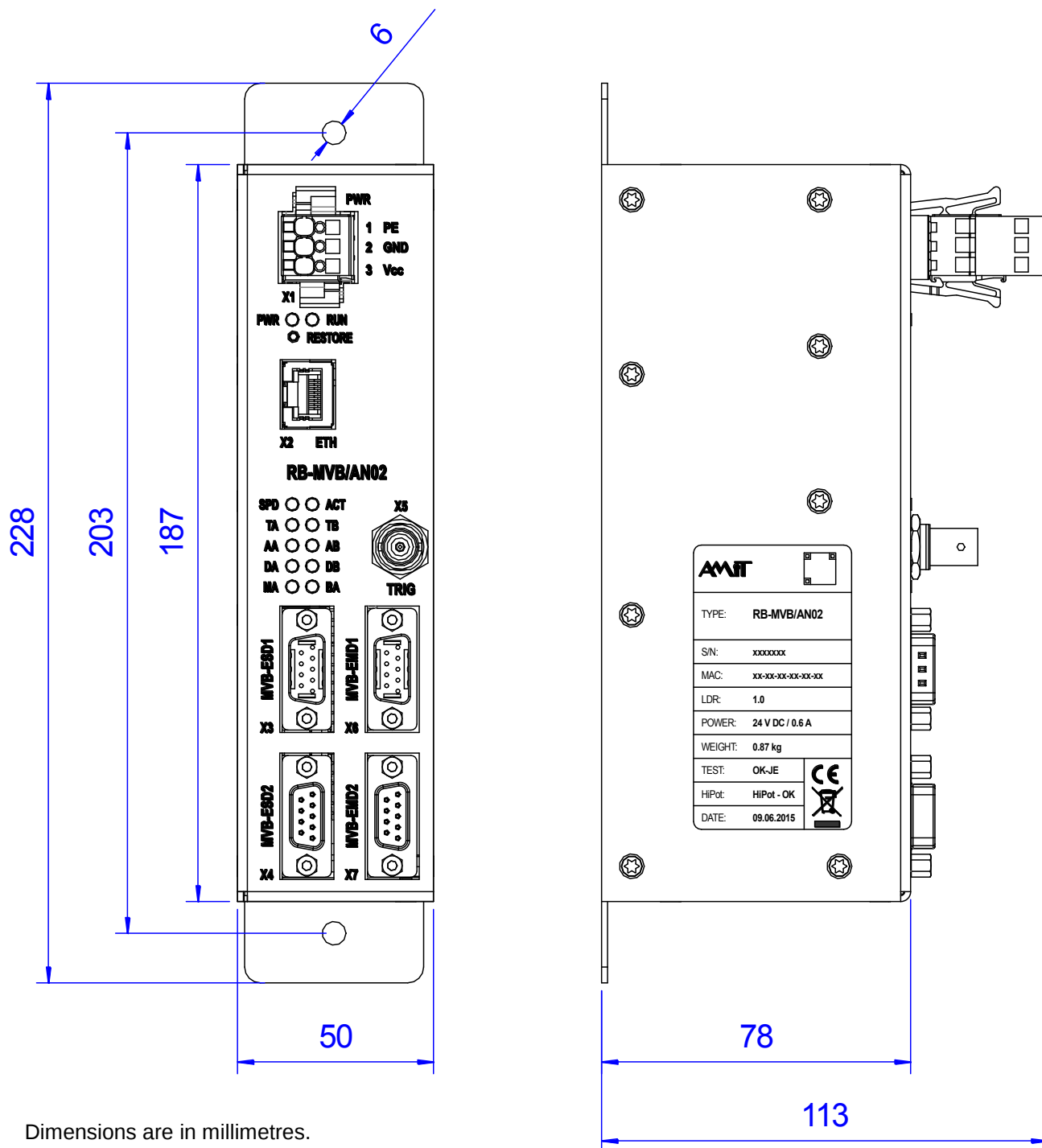
CONNECTORS X6 AND X7 (MVB-EMD)

Pin	Signal	Meaning
1	A.Data_P	A line positive wire
2	A.Data_N	A line negative wire
3	–	Not used
4	B.Data_P	B line positive wire
5	B.Data_N	B line negative wire
6	A.Term_P	A line termination, positive pole
7	A.Term_N	A line termination, negative pole
8	B.Term_P	B line termination, positive pole
9	B.Term_N	B line termination, negative pole
Shield	SH_MVB	Connected to PE

RB-MVB/AN02

MVB line analyzer

PHYSICAL DIMENSIONS



Data provided in this datasheet are only informative. Detailed information can be found in operational manual ([rb-mvban02_g_en_xxx.pdf](#)). Documentation can be downloaded from www.amit-transportation.com web site.