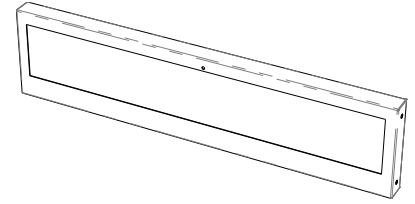


ALP1A2812/A1

Information LED Panel for Rolling Stock

- **Display area (804 × 124) mm, yellow LED**
- **Resolution 200 × 30 pixels**
- **Ethernet**
- **Power Supply 24 V DC**
- **Complies with the UIC176 requirements**
- **Designed in accordance with EN 50155**



TECHNICAL DATA

Display area	(804 × 124) mm
Resolution	200 × 30 pixels
LED pitch	4 mm
LED colour	Yellow, 590 nm typ.
Brightness	Min. 800 cd/m ²
Observation angle	120 ° *)
Light sensor	1 ×
Function	Measuring of ambient light
Ethernet interface	1 ×
Transmission rate	10/100 Mbps
Connection point	Connector M12 D-coded
Galvanic isolation, isolation strength	Yes, 1000 V AC/ 1 minute **)
Power supply	16.8 V to 33.6 V DC
Power consumption	2.65 A at 24 V DC
Galvanic isolation, isolation strength	Yes, 1000 V AC/ 1 minute **)
Connection point	M12, 4-pin, A coded
Others	
Mechanics	Metal cover + tempered glass
Colour of mechanics	Black fine matte RAL 9005
Mounting	4 × M6 screw on the sides 4 × M6 screw back cover
Earthing point	Bolt M4
Ingress protection rate	IP50
Operating temperature range	-40 °C to 70 °C
Storage temperature range	-40 °C to 70 °C
Maximum ambient humidity	< 95 %, non-condensing
Weight	7.0 kg ±5 %
Dimensions (w × h × d)	(852 × 202 × 58) mm
Expected MTBF	> 150 000 h

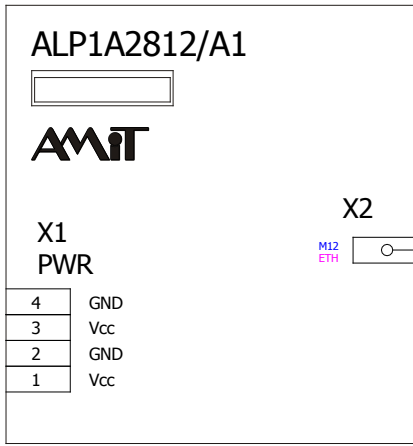
*) Decline in brightness from the line of observation angle to 50 %.

***) Galvanic isolation may not be used for unsafe voltage separation.

ORDERING INFORMATION

ALP1A2812/A1	Information LED panel without connector counterparts, routine test protocol, Insulation test protocol, Certificate of product quality and completeness
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DRAWING SYMBOL

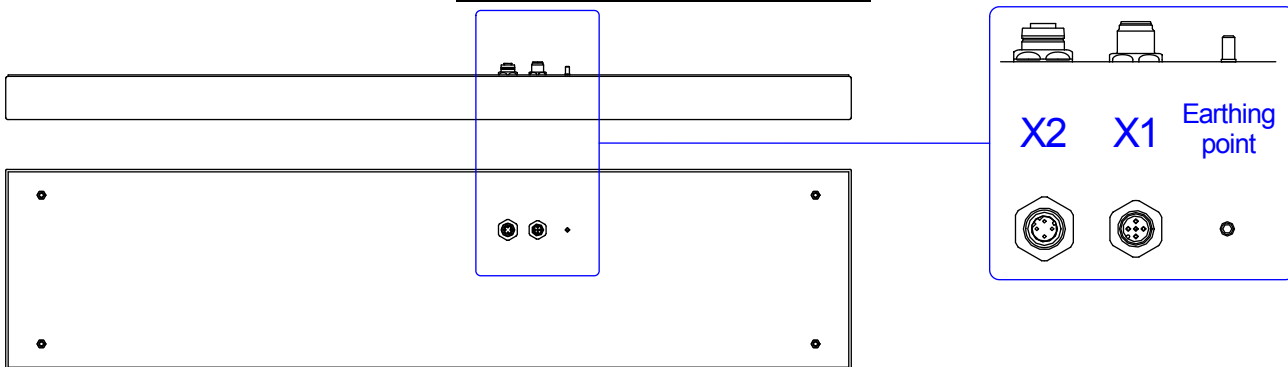


TERMINALS ASSIGNMENT

Connector	PIN	Signal	Description
X1 PWR	1	Vcc	Power supply, +24 V
	2	GND	Power supply, GND
	3	Vcc	Power supply, +24 V
	4	GND	Power supply, GND
	Shield	Shield	Unit frame

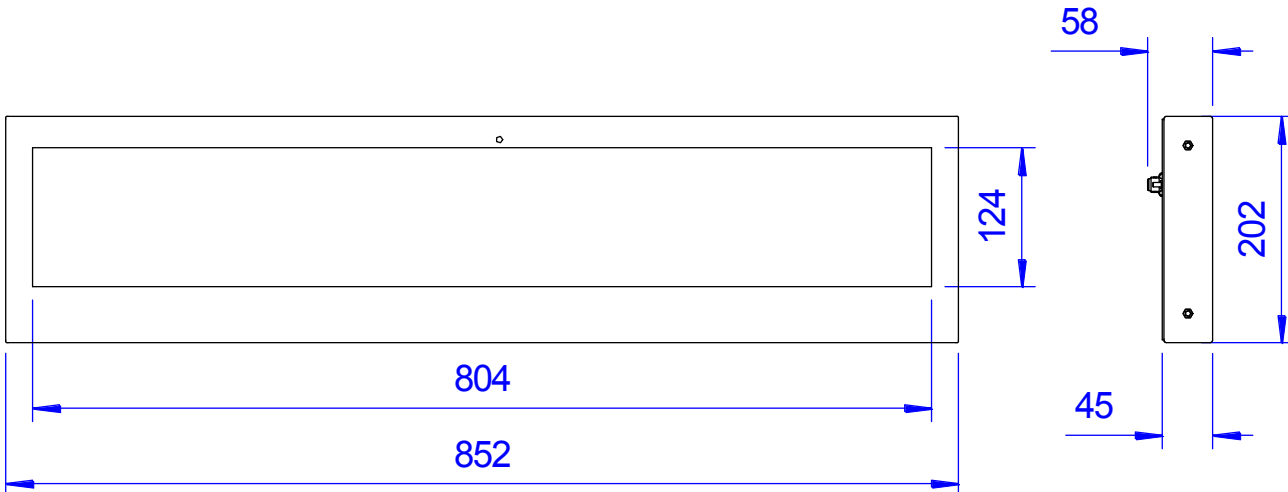
Connector	PIN	Signal	Description
X2 ETH	1	Tx+	Data transmission, signal +
	2	Rx+	Data reception, signal +
	3	Tx-	Data transmission, signal -
	4	Rx-	Data reception, signal -
	Shield	Shield	Unit frame

CONNECTOR PLACEMENT



PANEL DIMENSIONS, CONNECTOR LOCATION

PWR and Ethernet connectors are located on the backside of panel. All dimensions in [mm].



Data provided in this datasheet is tentative. Documentation can be downloaded from www.amit-transportation.com web site.