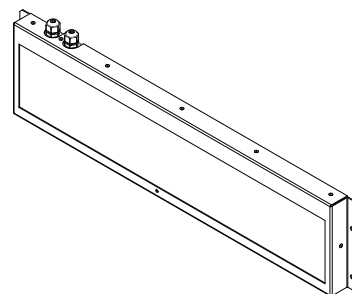


ALP2300/B

LED Panel for Rolling Stock

- Display area (650 × 110) mm
- LED colour yellow
- Resolution (131 × 23) pixels
- RS485 communication interface
- Power supply 24 V DC
- Fulfill UIC176 requirements
- Designed in accordance with EN 50155



TECHNICAL DATA

Display area	(650 × 110) mm
Resolution	(131 × 23) pixels
LED pitch	5 mm
LED colour	Yellow, 590 nm typ.
Brightness	Typ. 200 cd/m ²
Observation angel	70 ° *)
Light sensor	1 ×
Function	Measuring of ambient light
RS485	1 ×
Galvanic separation, insulation strength	Yes, 500 V AC/1 minute **)
Connection	WAGO 231-636/019-000 #)
Geographical addressing	Separate cable
Number of bits	4
Connection	WAGO 231-635/019-000
Power supply	16.8 V DC to 33.6 V DC
Max. power consumption	2 A at 24 V DC
Peak input current	5 A ###)
Connection	WAGO 231-636/019-000 #)
Others	
Mechanic	Sheet metal cover + polycarbonate
Colour of mechanic	Grey
Mounting	4 × hole Ø 7 mm
Cover protection rate	IP50
Operating temperature	-40 °C to 70 °C
Storage temperature	-40 °C to 70 °C
Max. ambient humidity	< 95 % non-condensing
Weight	3 kg
Dimensions (w × h × d)	(724 × 167 × 37) mm
Expected MTBF	> 50 000 h

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

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

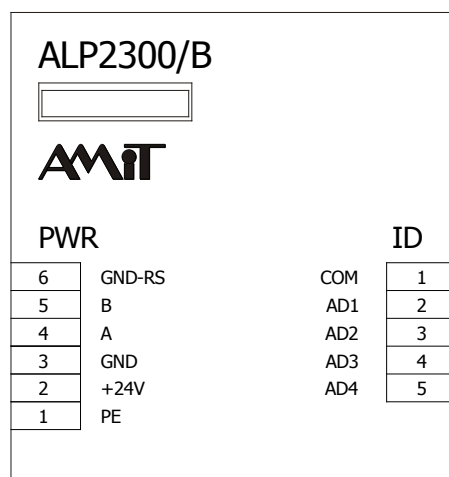
#) Power supply and RS485 communication are on common connector.

###) Duration time of peak input current is less then 5 ms.

ORDERING INFORMATION

ALP2300/B	LED panel, WAGO connector counterparts, certificate of product quality and completeness, production test report, insulation test report
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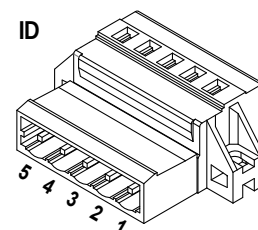
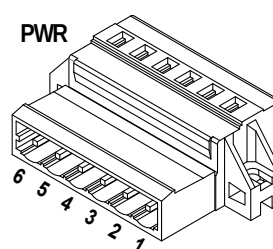
RECOMMENDED DRAWING SYMBOL



TERMINALS ASSIGNMENT

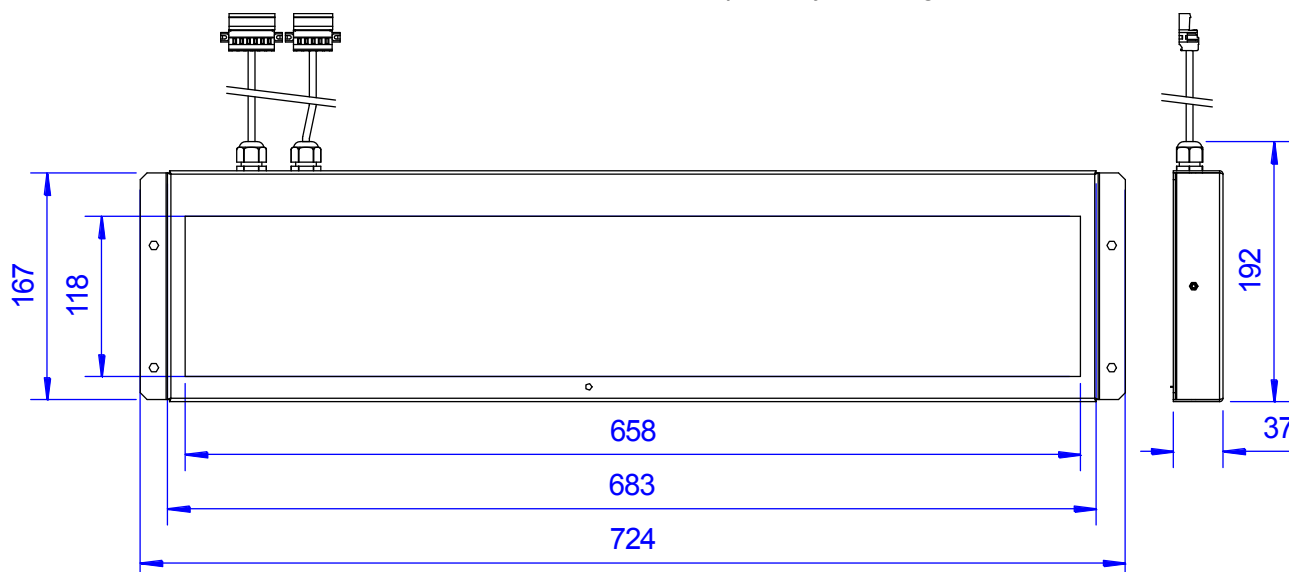
Connector	PIN	Signal	Signal description
PWR	1	PE	Unit frame
	2	+24V	Power supply, +24 V
	3	GND	Power supply, GND
	4	A	RS485, A line
	5	B	RS485, B line
	6	GND-RS	RS485, ground

Connector	PIN	Signal	Signal description
ID	1	COM	Common address pin
	2	AD1	Address pin 1
	3	AD2	Address pin 2
	4	AD3	Address pin 3
	5	AD4	Address pin 4



PANEL DIMENSIONS AND CONNECTORS LOCATION

PWR and ID connectors are lead out of the information LED panel by 1 m length cables.



Data provided in this datasheet are only informative. Detailed information can be found in operational manual ([alp2300b_g_en_xxx.pdf](#)).
Documentation and examples can be downloaded from www.amit-transportation.cz web site.