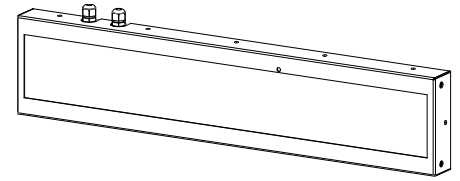


ALP3C0510/A1

Information LED Panel for Rolling Stock

- Display area (684 × 90) mm, Red LED
- Resolution (114 × 15) pixels
- RS485 communication interface
- Power supply 24 V DC
- Fulfill UIC176 requirements
- Design according to EN 50155



TECHNICAL DATA

Display area	(684 × 90) mm
Resolution	(114 × 15) pixels
LED pitch	6 mm
LED colour	Red, 633 nm typ.
Brightness	Min. 200 cd/m ²
Viewing angle	120 ° *)
Light sensor	1 ×
Function	Measuring of ambient light
RS485	1 ×
Galvanic separation, isolation strength	Yes, 500 V AC / 1 minute **)
Connection	WAGO231-636/019-000 *)
Geographical addressing	On separate cable
Number of panels on one RS 485 segment	16
Connection	WAGO231-635/019-000
Power supply	16,8 V DC to 33,6 V DC
Power consumption	Max. 1 A at 24 V DC
Peak input current	10 A ##)
Connection point	WAGO231-636/019-000 #)
Others	
Mechanic	Sheet metal cover + polycarbonate
Colour of mechanic	Black
Mounting	4 × M5 screw from the side
Cover protection rate	IP50
Operating temperatures range	-40 °C to 70 °C
Storage temperatures range	-40 °C to 70 °C
Maximum ambient humidity	< 95 %, non-condensing
Weight	4 kg
Dimensions (w × h × d)	(710 × 150 × 47) mm
Expected MTBF	> 150 000 h

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

***) Galvanic separation has not to be used for unsafe voltage separation.

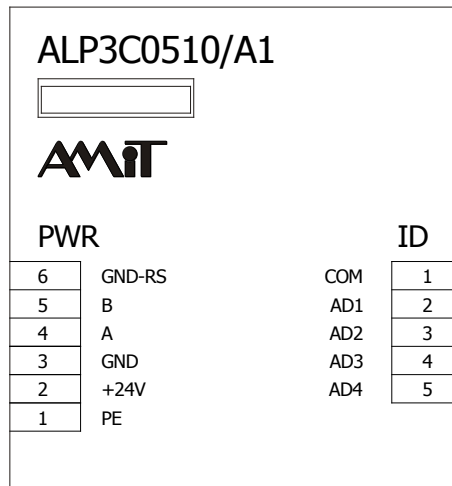
#) Power supply and RS485 communication are on common connector.

##) Duration time of peak input current is less then 10 ms.

ORDERING INFORMATIONS

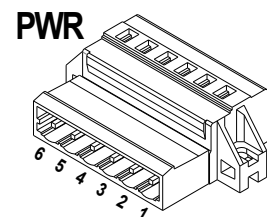
ALP3C0510/A1	LED panel, connector counterparts for service cables (2 pcs), user's manual, warranty card, production test report, insulation test report
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RECOMMENDED DRAWING SYMBOL

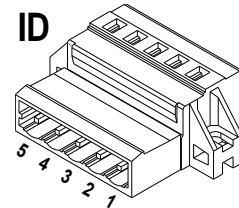


TERMINALS ASSIGNMENT

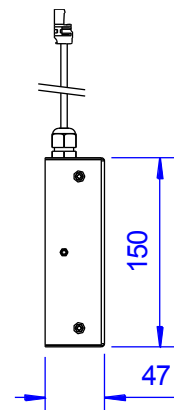
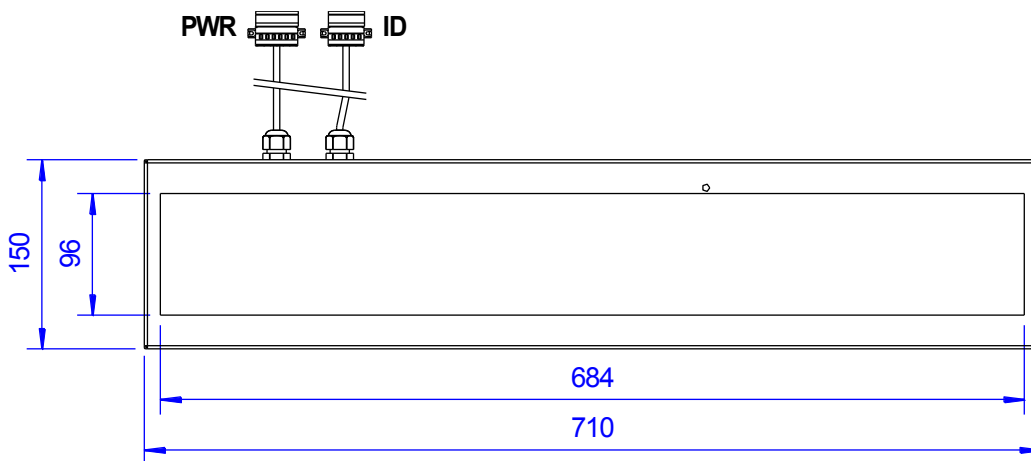
Connector	PIN	Signal	Signal description
PWR	1	PE	Unit frame
	2	+24V	Power supply, +24 V
	3	GND	Power supply, GND
	4	A	RS485, signal A
	5	B	RS485, signal B
	6	GND-RS	RS485, ground



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



MECHANICAL DRAWING



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