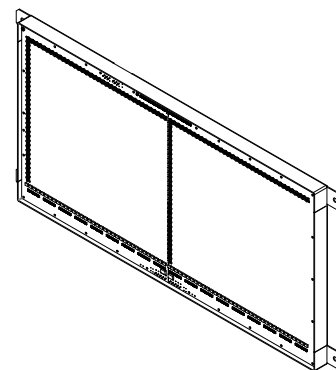


ALP1100/A

LED Panel for Rolling Stock

- Display area (572 × 252) mm, yellow LED colour
- Resolution 144 × 64 pixels
- RS485 interface with galvanic separation
- Power supply 24 V DC
- Mounting to the dustproof niche
- Fulfil UIC176
- Designed in accordance with EN 50155



TECHNICAL DATA

CPU	
Processor	STM32F103ZET6
Internal FLASH memory	512 kB
Display area	(572 × 252) mm
Resolution	144 × 64 pixels
LED pitch	4 mm
LED colour	Yellow, 590 nm typ.
Brightness	Min. 800 cd/m ²
Observation angel	70 ° *)
Light sensor	
Sensor	AMS302
Function	Measuring of ambient light
RS485	1 ×
Galvanic separation / insulation strength	Yes, 500 V AC/1 minute **)
Connection	2 × WAGO231-333/001
Power supply	16,8 V DC to 33,6 V DC
Max. power consumption	15 A at 24 V DC
Peak input current	10 A #)
Connection	2 × WAGO231-335/001
Others	
Mechanic	metal rack cover plexi-glass is not included
Mounting	On-wall inside the dustproof niche – rack is fixed by screws
Cover protection rate	IP00
Operating temperature	-40 °C to 70 °C
Storage temperature	-40 °C to 70 °C
Max. ambient humidity	< 95 % non-condensing
Weight	4 kg
Dimensions (w × h × d)	(661 × 315 × 37) mm
Expected MTBF	> 50 000 h

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

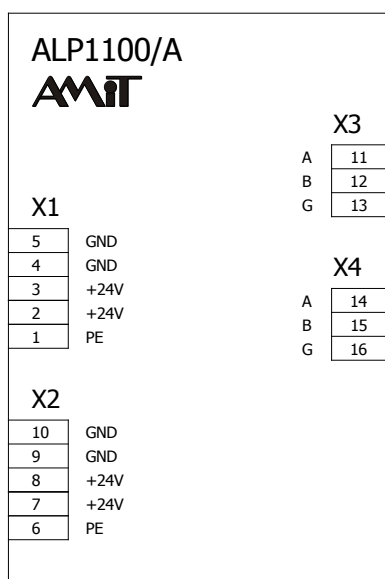
***) Galvanic separation may not be used for unsafe voltage separation.

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

ORDERING INFORMATION

ALP1100/A	LED panel, connector counterparts, user's manual, warranty card, production test report, insulation test report
------------------	---

RECOMMENDED DIAGRAM SYMBOL



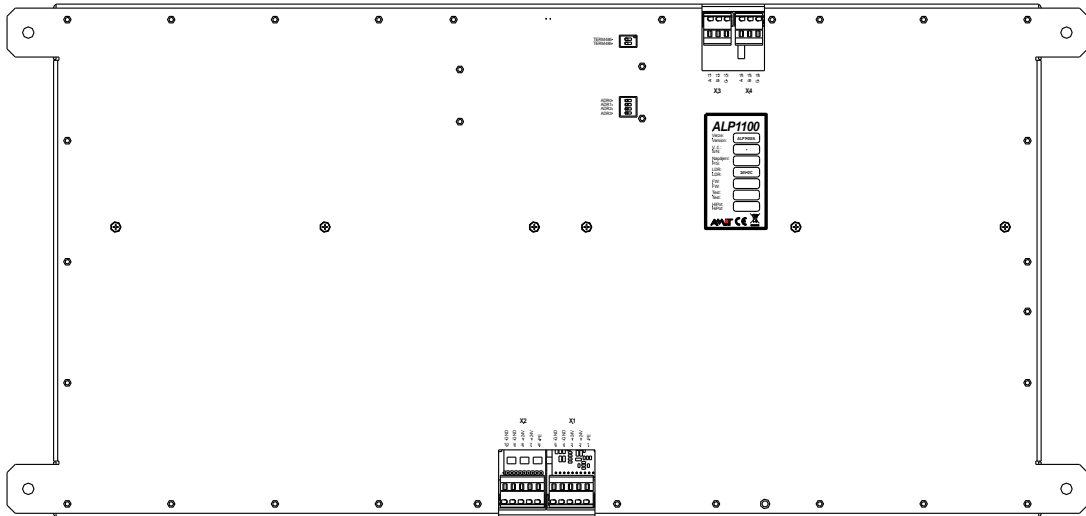
TERMINALS ASSIGNMENT

Connector	PIN	Signal	Signal type on ALP1100/A
X1	1	PE	Unit frame
	2	+24V	Power supply, +24 V
	3	+24V	Power supply, +24 V
	4	GND	Power supply, GND
	5	GND	Power supply, GND
X2	6	PE	Unit frame
	7	+24V	Power supply, +24 V
	8	+24V	Power supply, +24 V
	9	GND	Power supply, GND
	10	GND	Power supply, GND
X3	11	A	RS485, A line
	12	B	RS485, B line
	13	GND-RS	RS485, ground
X4	14	A	RS485, A line
	15	B	RS485, B line
	16	GND-RS	RS485, ground

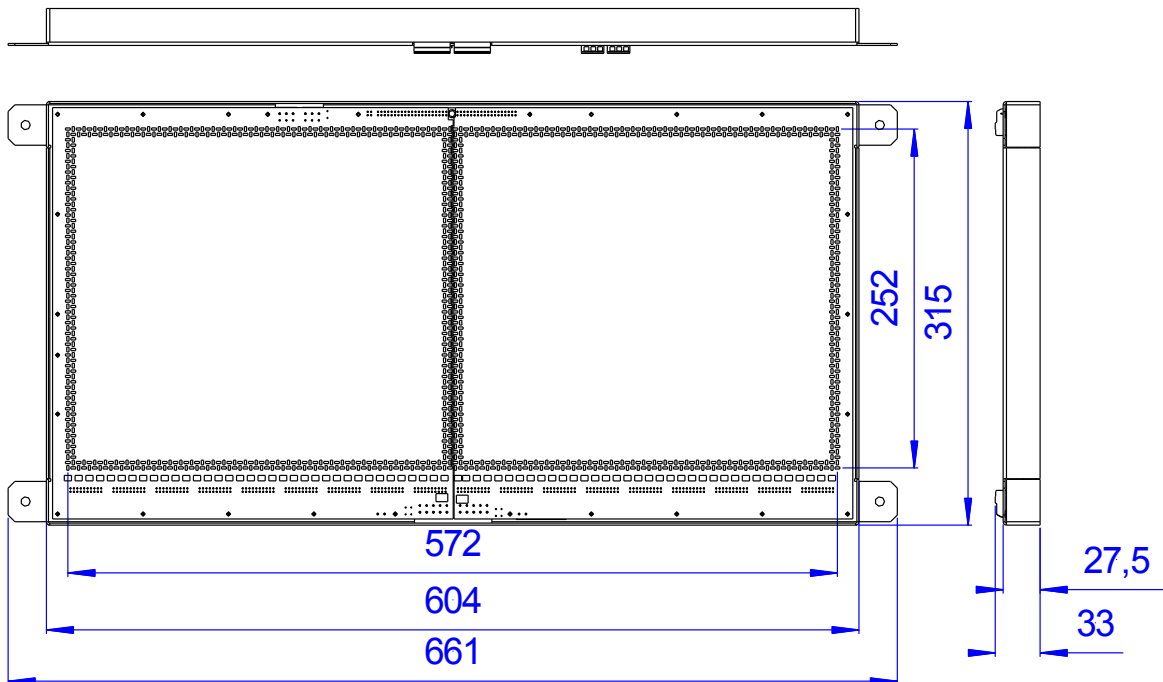
ALP1100/A

LED Panel for Rolling Stock

CONNECTORS LOCATION



PANEL DIMENSIONS



Information listed in this data sheet has only informative character. Binding data are mentioned in user's manual (alp1100a_g_en_xxx.pdf). Documentation and examples are available on www.amit.cz or on company CD.