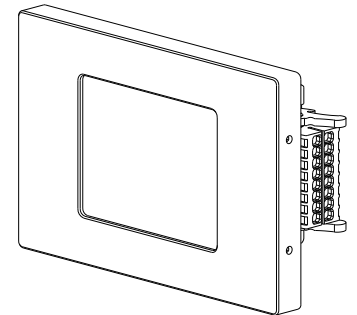


AIPQS1028NG01/01

TFT Panel for Rolling Stock 2.8"

- 2.8", 320 × 240, TFT LCD
- 4 × digital input 24 V DC with GI
- Power supply 24 V DC with GI
- Mounting to panel
- Designed in accordance with EN 50155



TECHNICAL DATA

Display	2.8", 320 × 240, TFT LCD
LCD active area	(57 × 43) mm
Brightness, contrast	Typically 300 cd/m ² , typically 700:1
Observation angle	160 ° horizontally, 160 ° vertically ¹⁾
Back-lit / lifetime	LED / min. 50 000 hours ²⁾
Digital inputs	4 ×
Nominal voltage	24 V
Galvanic isolation, isolation strength	Yes, 500 V AC / 1 minute ^{#)}
RS232	1 × (Rx, Tx, GND)
Galvanic isolation, isolation strength	Yes, 500 V AC / 1 minute ^{#)}
Power supply	16.8 V to 30 V DC
Nominal power supply voltage	24 V DC
Galvanic isolation, isolation strength	Yes, 500 V AC / 1 minute ^{#)}
Max. power consumption	50 mA at 24 V DC
Connection point	WAGO713-1108/037-000
Others	
Mechanic	Display on base plate and back cover ³⁾
Colour	RAL 9005
Mounting	To panel, 4 × Ø 5 mm
Protection	IP65/IP20
Operating temperature	-20 °C to 70 °C
Storage temperature	-30 °C to 80 °C
Max. ambient humidity	< 95 % non-condensing
Weight	0.23 kg
Dimensions (w × h × d) without front panel	(107 × 72 × 32) mm
with front panel	(112 × 75 × 35) mm

¹⁾ For contrast ratio ≥ 10:1.

²⁾ Decline in brightness to 50 % at operating temperature 25 °C.

³⁾ Without front aluminium panel.

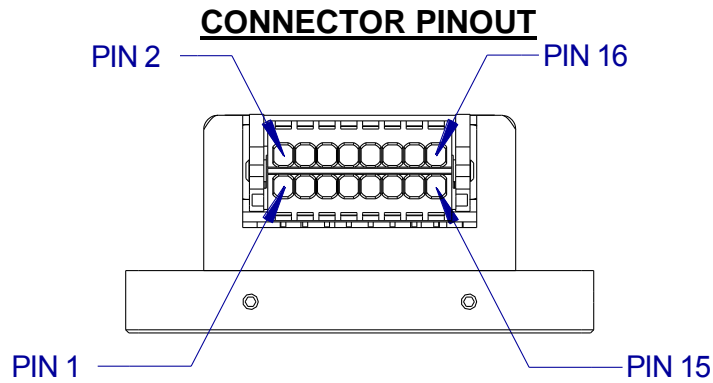
^{#)} Isolation may not be used for dangerous voltage separation.

ORDERING INFORMATION *)

AIPQS1028NG01/01	Information panel, Routine testing protocol, Insulation testing protocol, Certificate of product quality and completeness
PNT AIPQS1028/xx	Front cover panel for AIPQS1028NG01/01 ¹⁾
WAGO713-1108/037-000	Counterpart, not included with panel, has to be ordered individually

¹⁾ Front cover panel color is customizable.

^{*)} Depending on customer inquiry, components can be ordered individually or as a whole set.



RECOMMENDED DIAGRAM SYMBOL

AIPQS1028NG01/01	
AMIT	
X1	
1	WAGO713-1428/037-000 PE
2	PE
3	GND
4	GND
5	Vcc
6	Vcc
7	DI00
8	DI01
9	DI02
10	DI03
11	DGND
12	DGND
13	NC
14	NC
15	RS232_TX
16	RS232_RX

TERMINALS ASSIGNMENT

PIN	Signal	Description
1	PE	PE – Chassis
2	PE	
3	GND	Negative Supply Ground (Vcc and RS232 and DI)
4	GND	
5	Vcc	Positive Supply +24 V DC
6	Vcc	
7	DI00	Digital Input 0
8	DI01	Digital Input 1
9	DI02	Digital Input 2
10	DI03	Digital Input 3
11	DGND	Digital Input Ground (Internally connected to GND)
12	DGND	
13	NC	Not Connected
14	NC	
15	RS232_TX	RS232 TX
16	RS232_RX	RS232 RX

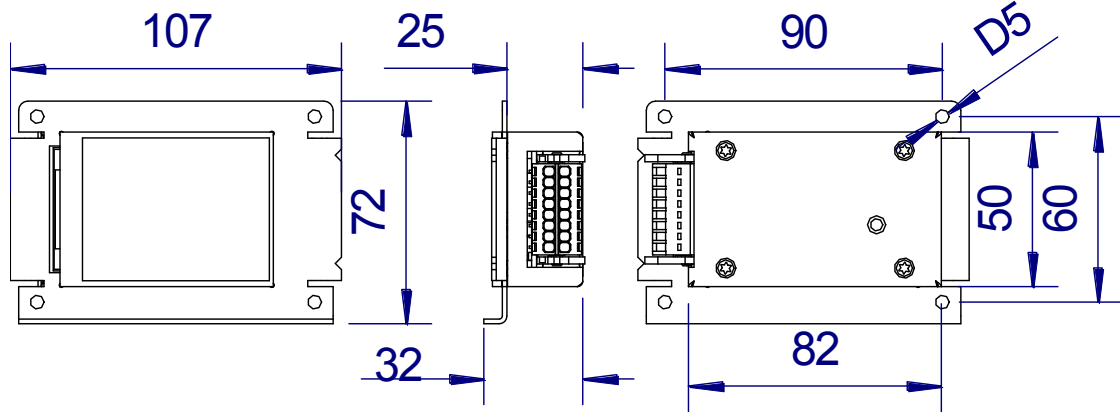
AIPQS1028NG01/01

TFT Panel for Rolling Stock 2.8"

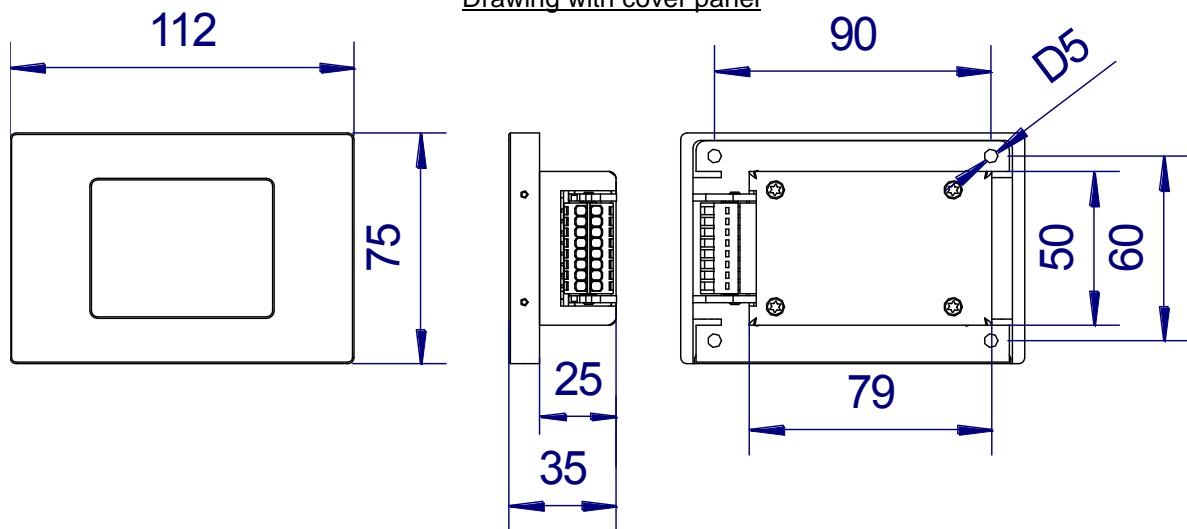
PANEL DIMENSIONS

All dimensions in [mm].

Drawing without cover panel



Drawing with cover panel



Data provided in this datasheet are tentative. Detailed information can be found in Operation manual ([aipqs1028ng0101_g_en_xxx.pdf](#)).

Documentation can be downloaded from www.amit-transportation.com web site.