② E 小A PowerPlex[®] Touch Panel 7.0[®] PP-M-TP070

Description

The **PowerPlex**[®] Touch Panel 7.0" allows ease of operation of a **PowerPlex**[®] installation. The high-resolution, resistive 7.0" colour touch display has been designed for use under harsh conditions. Operation is effected by pressure on the surface.

PowerPlex® is a decentralised power distribution and control system. All **PowerPlex®** modules ensure reliable control and monitoring of the electrical installations on board, either alone or in combination with other **PowerPlex®** components. Besides the protection against overcurrent they allow readout of data of the connected level sensors and temperature sensors as well as of shunts.

All modules of a system communicate and interact via an SAE-J1939-compliant CAN bus. *PowerPlex*[®] is configured by using the *PowerPlex*[®] Configuration Software and the configuration is transferred to the modules by means of USB/CAN converters.

Typical applications

- Buses, special vehicles, mobile homes etc.
- Watercraft, e.g. leisure boats, workboats

Features and benefits

- Compact and light-weight design
- Visualisation and intuitive operation
- High speed of response
- High touch resolution for maximum precision
- Freely configurable control of electrical loads
- System status control and monitoring
- Integration and display of sensor units (tank, battery, temperature)
- Combination with or replacement of panels and pointer elements

Part number

PP-M-TP070-000-0-Z-00

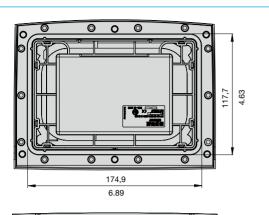
Approvals	;	
Authority	Standard	Rated voltage
KBA	ECE regulation No 10 (E1)	DC 12 V
		DC 24 V



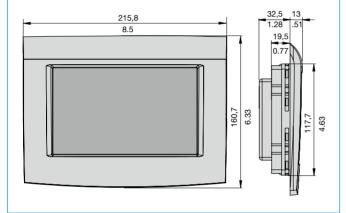
Technical data

Display size	7.0"
Resolution	800 x 480 pixels
Touch sensor	resistive touch
Brightness	typically 400 cd/m ²
Rated voltage	DC 12 V / DC 24 V
Operating voltage	9 32 V DC
Max. current consumption	370 mA (brightness of display: 100%) 160 mA (brightness of display: 5%)
Protection class	IP20 (mounting method A, front area) IP65 (mounting method B, front area)
Operating temperature range	-20+70 °C (-4+158 °F)
Storage temperature range	-30+80 °C (-22+176 °F)
Humid heat (IEC 60068-2-30, Db)	40 °C 95% RH, 240 hrs
Vibration IEC 60068-2-6, Fc	10 Hz to 58 Hz: ± 0.76 mm 58 Hz to 200 Hz: acceleration approx. 10 g
IEC 60068-2-64, Fh	10 Hz to 2000 Hz: acceleration approx. 2 g _{RMS}
Shock (IEC 60068-2-27, Ea)	2.5 g (11 ms)
EMC	CE marking to EN 61000-6-2, EN 61000-6-4
Mass	approx. 550 g
Interfaces:	
CAN to The CAN terminals at each end with a 120 Ω resistor.	SAE J1939 250kBits/s d of the bus have to be connected
USB	USB 2.0 service interface

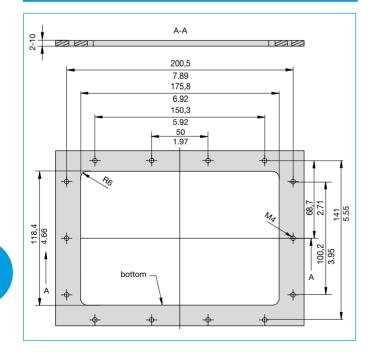
Dimensions



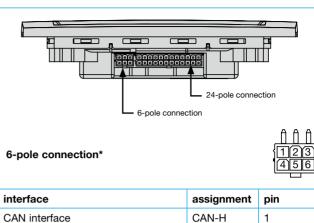




Mounting dimensions



Pin assignment



AN interface	CAN-H	1
	CAN-L	2
	SHLD	3
	CAN-H	4
	CAN-L	5
	SHLD	6

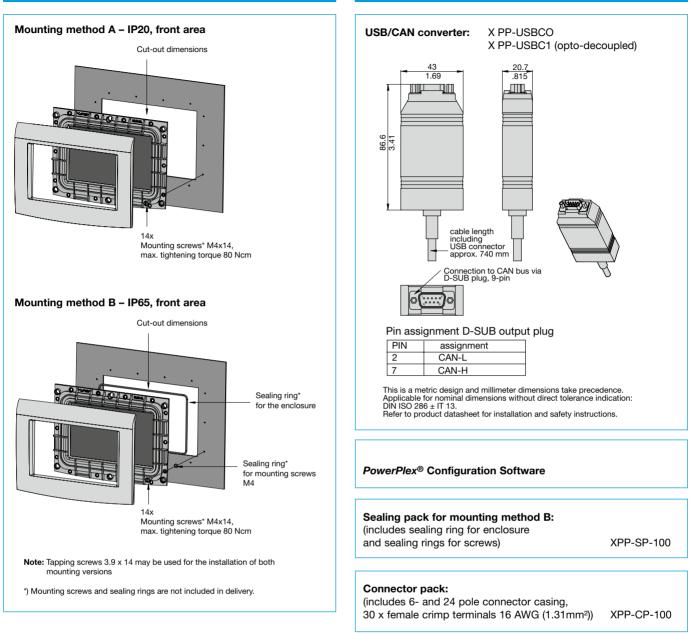
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 3 4 5 6 7 8 9 10 11 12 1 3 4 5 6 7 8 9 10 11 12 1 3 4 5 6 7 8 9 10 11 12 1 3 4 5 6 7 8 9 10 11 12 1 3 4 5 6 7 8 9 10 11 12 1 3 4 5 6 7 8</t

interface	assignment	pin
voltage supply	U _{Batt} +	1
(DC 12 V / 24 V, DC 9 32 V)	U _{Batt} -	2
cont. plus (DC 12 V / 24 V, max. 36 V)	D +	3
USB 2.0 service interface	Data _{USB} +	5
	GND _{USB}	6
	Data _{USB} -	17
	+5 V _{USB}	18

interface, upon request	assignment	pin
LIN interface (CIB)	LIN	4
audio interface	L O	13
	GND _{AUDIO}	14
multipurpose load outputs	L1	15
	GNDL	16
	L 2	9
	L 3	10
	L 4	11
	L 5	12
	GNDL	8
thernet	TX+	19
	TX-	20
	RX+	21
	RX-	22
RS 485	A _{RS485}	23
	B _{RS485}	24

*) Mating connectors are not included in delivery (see accessories)

Mounting



Accessories

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All dimensions without tolerances are for reference only. E-T-A reserves the right change specifications at any time in the interest of improved design, performance and cost effectiveness, the right to make changes in these specifications without notice is reserved. Product markings may not be exactly as the ordering codes. Errors and omissions excepted.

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