UCS 125-87-F-GD-D2,4-TRG 7035 - Universal housing with touch display

1246286

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Complete housing for PCBs, can be positioned flexibly, adhesive pads for attaching the PCB, with turquoise blue corner inserts; touch display integrated in housing half-shell, resistive touch technology, 2.4 inch, resolution: 320 x 240 pixels, interface: SPI

Your advantages

- Housing system for visualization and operation in the field
- Time-saving assembly of ready-to-use modules with Plug and Play
- Positioning of the display using the configurator
- Space for additional electronics expands the Raspberry Pi minicomputer’s areas of application
- Can be used universally thanks to extensive accessories

Commercial data

Item number	1246286
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AC22
Product key	ACFCAD
GTIN	4063151346997
Weight per piece (including packing)	339 g
Weight per piece (excluding packing)	33.4 g
Customs tariff number	84879090
Country of origin	DE

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Technical data

Notes

Assembly note	The housing can be opened a maximum of 10 times.
Note on application	Attach the adhesive pads: Make sure that the surface of the housing is clean, dry, and free of grease. Temperature range: +18°C ... +30°C / Closing pressure force: 60 N / Closing pressure time: 3 s
General	Please observe the application note in the download area.

Product properties

Product type	Complete housing
Housing type	Field housing
Housing type	Universal housings
Housing series	UCS
Product family	UCS 125-87
Ventilation openings present	no

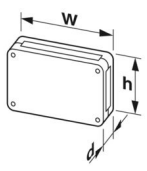
Display

Display type	Color display TFT
Diagonal	(Display)
	2.4 in. / 6.9 cm (Display)
Screen resolution	320 x 240 Pixel(s)
Display formats	3:4
Display lighting type	LED, white
Contrast ratio	500:1
Controller	ST7789V

Interfaces

Interface	4-wire SPI half duplex

Dimensions

Dimensional drawing	
Width	125 mm
	125 mm
Height	87 mm
Depth	47 mm
Dimensions	100 mm x 62 mm (Maximum circuit board dimensions)

PCB design

PCB thickness	0.8 mm ... 3 mm

Material specifications

Color (Housing)	light gray (RAL 7035)
Color (Corner inlay)	turquoise green (RAL 5018)
Material Housing	PC
Material Corner inlay	PA
Flammability rating according to UL 94	V0
CTI according to IEC 60112	225

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.15 mm (10 Hz ... 58.1 Hz)
Acceleration	2g (58.1 Hz ... 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Glow-wire test

Specification	IEC 60695-2-11:2014-02
Temperature	850 °C
Time of exposure	30 s

Thermal stability / ball thrust test

Specification	IEC 60695-10-2:2014-02
Temperature	125 °C
Test duration	1 h
Force	20 N

Mechanical strength / tumbling barrel

Specification	IEC 60068-2-31:2008-05
Height of fall	50 cm
Frequency	50

Shocks

Specification	IEC 60068-2-27:2008-02
Pulse shape	Half-sine
Acceleration	15g
Shock duration	11 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

Test for substances that would hinder coating with paint or varnish

Specification	VW PV 3.10.7:2005-02
Result	Test passed

Ambient conditions

Max. IP code to attain	IP40
Ambient temperature (operation)	-20 °C ... 70 °C (depending on power dissipation)
Ambient temperature (storage/transport)	-30 °C ... 55 °C
Ambient temperature (assembly)	-5 °C ... 70 °C
Relative humidity (storage/transport)	80 %

PCB data

Number of PCB holders	1
Type of PCB mount	Bolt mounting
Total PCB surface	6000 mm²
Thickness of the PCB	0.8 mm ... 3 mm
Supported form factors	Raspberry Pi
Note on PCB holders	This product is prepared for a printed-circuit board. Additional printed-circuit boards can be mounted using adhesive pads (accessories).

Mounting

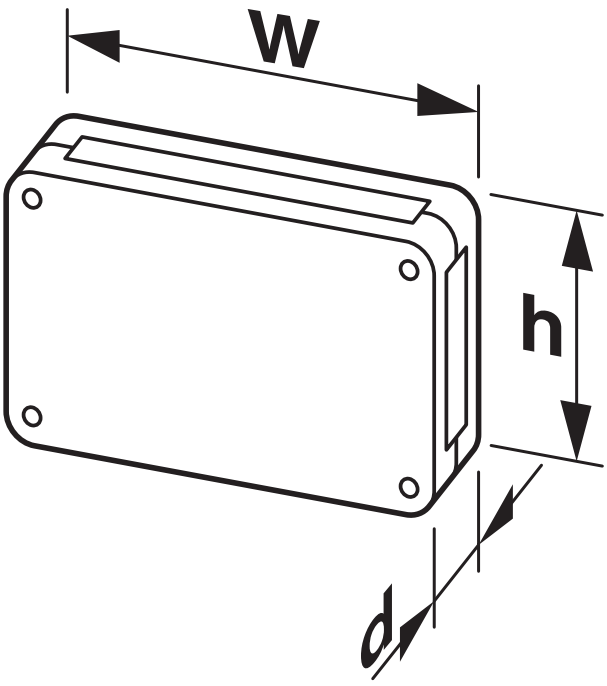
Mounting type	Screw mounting
Mounting position	any
Tightening torque / speed	Screw connection between housing halves: 1.2 Nm-1.4 Nm / 500 rpm-1000 rpm
	Mounting the PCB: 0.4 Nm-0.5 Nm / 500 rpm-1000 rpm
Tightening torque	1.2 Nm ... 1.4 Nm
Tightening torque	0.4 Nm ... 0.5 Nm

Packaging specifications

Type of packaging	Box packaging

Drawings

Dimensional drawing



Schematic representation – for additional information, see product range drawing in the Download Center

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1246286

UL Recognized
Approval ID: E240868

Classifications

ECLASS

ECLASS-13.0	27190104
ECLASS-15.0	27190104

ETIM

ETIM 10.0	EC001031

UNSPSC

UNSPSC 21.0	31261500

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	Perfluorobutane sulfonic acid (PFBS) and its salts(CAS: n/a)
SCIP	b82147ea-3815-4c7c-95ae-23df8efe1afc

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com