

## Universal housings - UCS 195-145-F-GD 9005 - 2203337

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Complete housing for PCBs, can be positioned flexibly; includes housing half shells, side panels closed, adhesive domes for PCB attachment, screws for housing and PCB attachment; housing: black with turquoise blue corner inlays

### Your advantages

- ✓ High degree of application flexibility, thanks to the modular housing design
- ✓ Flexible PCB attachment, adapts to virtually all form factors
- ✓ Practical customization options
- ✓ Reduced logistics outlay, thanks to components which are compatible with one another



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 404493
GTIN	4055626404493

### Technical data

#### Item properties

Type	UCS 195-145-F-GD 9005
Order No.	2203337
Housing type	Universal housings
Type	Flat design
Max. IP code to attain	IP40
Ventilation openings present	no

#### Measurements

Width [ w ]	195 mm
Height [ h ]	145 mm
Depth [ d ]	47 mm
Dimensions	170 mm x 120 mm (Maximum circuit board dimensions)

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## Technical data

### Material specifications

Color (RAL)	black (9005)
Flammability rating according to UL 94	V0
Housing material	PC

### Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 55 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 100 °C (depending on power dissipation)
Relative humidity (storage/transport)	80 %

### PCB data

Number of PCB holders	1
Note on PCB holders	This product is prepared for a printed-circuit board. Additional printed-circuit boards can be mounted using adhesive pads (accessories).
PCB thickness	0.8 mm ... 3 mm
Total PCB surface	14400 mm <sup>2</sup>
Type of PCB mount	Bolt mounting
Supported form factors	EPIC, ETX, Nano-ITX, PC/104, Pico-ITX, Raspberry Pi

### Power dissipation, single housing at 20 °C

Ambient temperature	20 °C
Reduction factor	1
Mounting position	vertical
Power dissipation	19 W

### Power dissipation, single housing at 30 °C

Ambient temperature	30 °C
Reduction factor	0.83
Mounting position	vertical
Power dissipation	15.7 W

### Power dissipation, single housing at 40 °C

Ambient temperature	40 °C
Reduction factor	0.66
Mounting position	vertical
Power dissipation	12.5 W

### Power dissipation, single housing at 50 °C

Ambient temperature	50 °C
Reduction factor	0.49
Mounting position	vertical
Power dissipation	9.3 W

### Power dissipation, single housing at 60 °C

Ambient temperature	60 °C
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## Technical data

### Power dissipation, single housing at 60 °C

Reduction factor	0.32
Mounting position	vertical
Power dissipation	6 W

### Mechanical strength/tumbling barrel

Specification	IEC 60068-2-31:2008-05
Height of fall	50 cm
Number of drop cycles	50

### Vibration test

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

### Shock

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.)

### Thermostability (ball thrust test)

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

### Test for assessing the risk of fire (glow wire)

Specification	DIN EN 60695-2-11 (VDE 0471-2-11):2014-11
Temperature	850 °C
Time of exposure	30 s

### Test for substances that would hinder coating with paint or varnish

Result	Test passed
Specification	VW PV 3.10.7:2005-02

### Degrees of protection provided by enclosures (IP code)

Specification	IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08
Result, degree of protection, IP code	IP40

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### Technical data

#### General information

Note	The housing can be opened a maximum of 10 times.
	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

#### Note on mounting

Tightening torque / rotational 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
Drive form screw head	Screw connection between housing halves: Slotted Torx®(T10)
	Mounting the PCB: Slotted Torx®(T7)

#### Packaging information

Type of packaging	Box packaging
Pieces per package	1
Denomination packing units	Pcs.

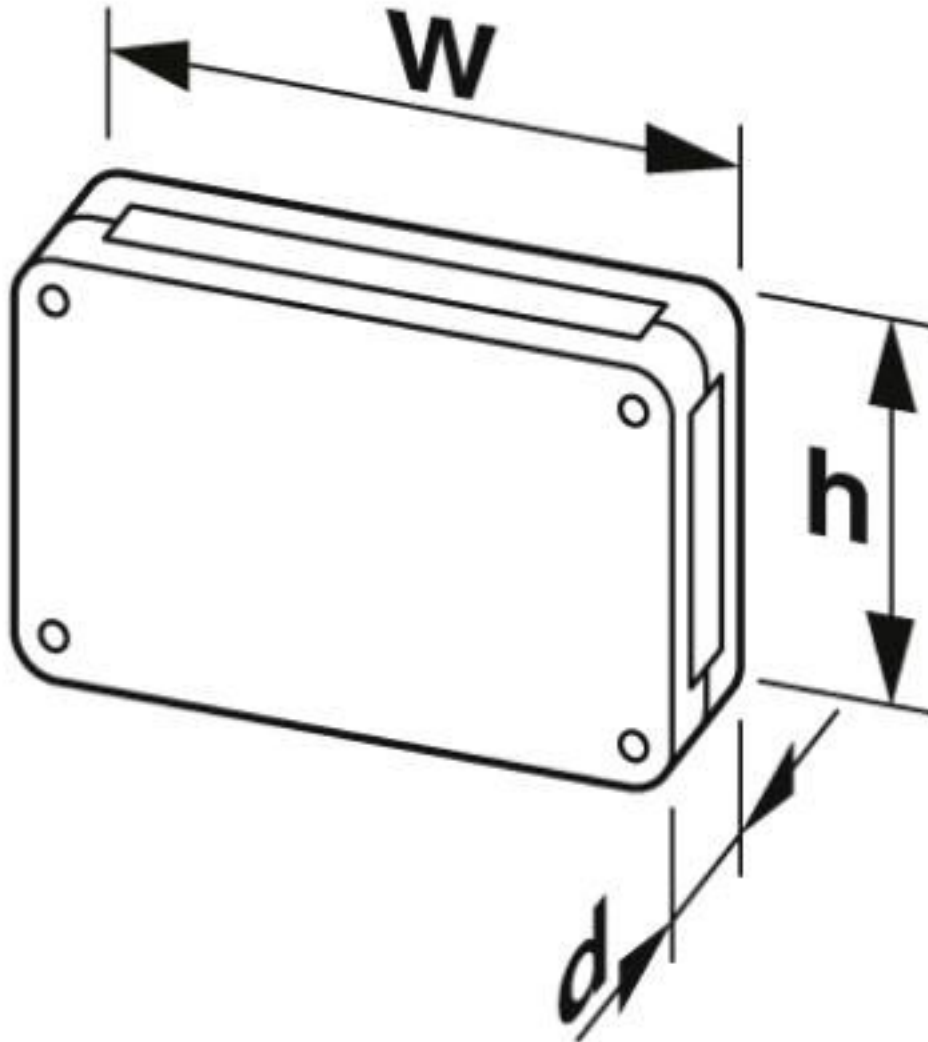
#### Standards and regulations

Flammability rating according to UL 94	V0
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### Drawings

## Universal housings - UCS 195-145-F-GD 9005 - 2203337

Dimensional drawing



### Classifications

eCl@ss

eCl@ss 10.0.1	27182702
eCl@ss 5.1	27180506
eCl@ss 6.0	27180800
eCl@ss 7.0	27182702
eCl@ss 8.0	27182702
eCl@ss 9.0	27182702

ETIM

ETIM 5.0	EC001031
ETIM 6.0	EC001031

## Universal housings - UCS 195-145-F-GD 9005 - 2203337

### Classifications

ETIM

ETIM 7.0	EC001031
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### Accessories

Accessories

Screwdriver tools

Screwdriver - SF-TXH 10X80 - 1200149



Screwdriver, Torx® with bore hole, TX 10 x 80, two-component handle

Screw insert - SF-BIT-TX 10-50 - 1212573



Screw bit, Torx®, E6.3-1/4" drive, size: TX 10 x 50 mm, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173

Torque tool

Battery-powered screwdriver - SF-ASD 21 - 1212532



Cordless screwdriver, incl. 1.5 Ah battery, forward/reverse running, 21-stage coupling, up to 600 rpm, 6.3 mm hexagonal fast connection drill chuck, torque can be adjusted from 0.3 ... 4.4 Nm

Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

Additional products

## Universal housings - UCS 195-145-F-GD 9005 - 2203337

### Accessories

#### Corner inlay - UCS CC 7035 - 2203395

Corner inlay for UCS housings, material: polyamide, color: light gray, similar to RAL 7035



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#### Corner inlay - UCS CC 9005 - 2203396

Corner inlay for UCS housings, material: polyamide, color: black, similar to RAL 9005



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#### Screw set - UCS SF 3,5X20 - 2203402



Screw set for creating a UCS housing of height 47 mm

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#### Screw set - UCS SF 3,5X40 - 2203403



Screw set for creating a UCS housing of height 67 mm

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#### Mounting set - UCS GD 9005 - 2203401

Adhesive screw boss, for securing the printed-circuit board, material: polyamide; content 4 pieces with screws 2.5 x 8



## Universal housings - UCS 195-145-F-GD 9005 - 2203337

### Accessories

#### Stand - UCS PED 9005 - 2203393



Stand for mounting the UCS housing; height: 47 mm; material: polyamide; color: black, similar to RAL 9005; wall mounting option is integrated, snaps into the screw holes of the housing

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#### Stand - UCS PED 7035 - 2203392



Stand for mounting the UCS housing; height: 47 mm; material: polyamide; color: light gray, similar to RAL 7035; wall mounting option is integrated, snaps into the screw holes of the housing

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#### Stand - UCS PED 5018 - 2203394



Stand for mounting the UCS housing, height: 47 mm; material: polyamide; color: turquoise blue, similar to RAL 5018; wall mounting option is integrated, snaps into the screw holes of the housing

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#### Wall bracket - UCS WM-B 7035 - 2203718



Adapter for mounting the UCS housing on the wall, material: polyamide, color: light gray similar to RAL 7035, used instead of UCS CC corner insert; only used in conjunction with UCS GD 9005 adhesive pad

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#### Wall bracket - UCS WM-B 9005 - 2203719



Adapter for mounting the UCS housing on the wall, material: polyamide, color: black similar to RAL 9005, used instead of UCS CC corner insert; only used in conjunction with UCS GD 9005 adhesive pad



## Universal housings - UCS 195-145-F-GD 9005 - 2203337

### Accessories

#### Wall bracket - UCS WM-B 5018 - 2203391



Adapter for mounting the UCS housing on the wall, material: polyamide, color: turquoise similar to RAL 5018, used instead of UCS CC corner insert. Only used in conjunction with UCS GD 9005 adhesive pad

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#### Corner guards - UCS CP 7035 - 2203346



Adapter for protecting the corners of the UCS housing; material: TPE-U; color: light gray, similar to RAL 7035; held in the screw holes of the housing

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#### Corner guards - UCS CP 9005 - 2203347



Adapter for protecting the corners of the UCS housing; material: TPE-U; color: black, similar to RAL 9005; held in the screw holes of the housing

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#### Corner guards - UCS CP 5018 - 2203348



Adapter for protecting the corners of the UCS housing; material: TPE-U; color: turquoise blue, similar to RAL 5018; held in the screw holes of the housing

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#### Stacking adapters - UCS CS 7035 - 2203720



Adapter for stacking several UCS housings of one size; material: TPE-U; color: light gray, similar to RAL 7035; held in the screw holes of the housing

## Universal housings - UCS 195-145-F-GD 9005 - 2203337

### Accessories

#### Stacking adapters - UCS CS 9005 - 2203721



Adapter for stacking several UCS housings of one size; material: TPE-U; color: black, similar to RAL 9005; held in the screw holes of the housing

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#### Stacking adapters - UCS CS 5018 - 1029039



Adapter for stacking several UCS housings of one size; material: TPE-U; color: turquoise blue, similar to RAL 5018; held in the screw holes of the housing

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#### Fiber optic - HS LC-H-D2/ R2XC1-2,54 - 2202316



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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#### Fiber optic - HS LC-H-D2/ R2XC2-2,54 - 2202317



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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#### Fiber optic - HS LC-H-D2/ R2XC5-2,54 - 2202318



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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## Universal housings - UCS 195-145-F-GD 9005 - 2203337

### Accessories

Fiber optic - HS LC-H-D2/ R2XC10-2,54 - 2202319

Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)



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DIN rail adapter - UCS DIN 145-F 7035 - 2203839

DIN rail adapter for mounting one UCS 145-125-F housing (long side) or UCS 195-145-F housing (short side) onto an NS 35 DIN rail; will be set into the housing instead of a UCS SW 145 side wall; material: polycarbonate; color: light gray, similar to RAL 7035



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DIN rail adapter - UCS DIN 145-F 9005 - 1174341

DIN rail adapter for mounting one UCS 145-125-F housing (long side) or UCS 195-145-F housing (short side) onto an NS 35 DIN rail; will be set into the housing instead of a UCS SW 145 side wall; material: polycarbonate; color: black, similar to RAL 9005



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