







Electronic housings Contents housing system S S T C M

Electronic housings Contents USING SYSTEM

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Electronic housings General information on the *dipos* housing system housing system









Typical applications

- □ Relay modules
- ☐ Timer relay modules
- □ Optocoupler (solid state) modules
- □ Compact power supply units
- □ Converter for standard analog signals
- ☐ Signal conditoning for RTDs and thermocouples
- ☐ Programmable signal conditioning
- □ Potential monitors
- □ Overvoltage protection
- □ Low-cost I/O systems
- Building automation

Potential applications and markets

- ☐ Mechanical and system engineering
- ☐ Electrical/electronics industry, device manufacturers
- ☐ Chemical industry and process automation
- ☐ Power engineering and power plants
- ☐ Building technology, heating, ventilation and air conditioning technology (HVAC)
- ☐ Automotive industry, planes, ships
- ☐ Consumer goods
- □ Food industry
- □ Utilities
- ☐ Environmental monitoring
- □ Traffic control

Properties of the housings

- ☐ Variety of housings for industrial process and building automation
- Pluggable housings consisting of module bases and modular housing units
- ☐ Housing can be expanded in the future in 5 mm increments
- 4 (at an overall width of 12.5 mm) or 6 (at an overall width of 17.5 mm) potentials can be bridged between the modules
- 8 connections in an overall width of 12.5 mm
- ☐ Type of connection technology can be selected: screw or spring-clamp connection
- ☐ Integrated ground connection
- ☐ Marking not covered by wiring
- ☐ Each connection can be marked with its own marking tag
- ☐ Colored marking tags available
- ☐ Group marking in the base and on the housing cover
- ☐ Lockable cover to prevent unwanted changes
- Ventilation slots
- □ PCB is terminal free
- ☐ Module base for TS 32 and TS 35 mounting rails

Electronic housings Modular housing system *dipos*

Housing properties:

- Pluggable housing
 Various design widths
 Potential bridging between the housings
 Minimum of 8 connections
 Connection type: screw or spring clamp





Dimensions (mm): W x H x D

Approvals: () (Standard)

Approvals: Daus (17.5 x 100 x 100 (Standard)

Description	Туре	Part No.	Std. Pack	Туре	Part No.	Std. Pa
Module base dipos umc						
with screw terminals (screw thread M3)		80.060.0000.1	1		80.060.1000.1	
with spring clamp		80.060.0001.1	1		80.060.1001.1	
Empty housings		80.061.0010.3	1		80.061.1010.3	
Technical data						
Rated voltage	230/400 V AC			230/400 V AC		
Maximum rated current	10 A per contact			10 A pro contakt		
Total current	10 A			10 A		
Overvoltage category	III			III		
Degree of pollution	2			2		
Connections per side	4 terminals, 4 po	tentials per side		6 terminals, 6 pote	entials per side	
Wire range of screw terminals						
fine-stranded/stranded	0.2 mm ² – 2.5 mr	m ²		0.2 mm ² – 2.5 mm	2	
solid	0.2 mm ² – 4 mm ²	2		0.2 mm ² – 4 mm ²		
flexible with ferrule with/without plastic sleeve	0.25 mm ² – 2.5 m	nm² / 0.25 mm² – 1.5 mm²	2	0.25 mm ² – 2.5 mr	m ² / 0.25 mm ² – 1.5 mm ²	
AWG	24 – 12			24 – 12		
Tightening torque	0.5 – 0.6 Nm			0.5 – 0.6 Nm		
Wire range of spring-clamp terminal	0.08 mm ² – 2.5 m	nm²		0.08 mm ² – 2.5 mr	m²	
with ferrules	0.08 mm ² – 1.5 m			0.08 mm ² – 1.5 mr		
AWG	28 – 12			28 – 12		
Bridging to the next module	4 potentials			6 potentials		
Fire protection	V2			V2		
Type of protection	IP 20			IP 20		
Ambient temperature	-25 °C+100 °C			-25 °C+100 °C		
Storage temperature	-40 °C+100 °C			-40 °C+100 °C		
Regulations, standards	EN 60947-1			EN 60947-1		
riogalations, standards	DIN EN 50178			DIN EN 50178		
	DIN VDE 0611 T1	1		DIN VDE 0611 T1		
	VDE 0110	<u> </u>		VDE 0110		
	VDE 106			VDE 0110		
Accessories						
Coding branch		Z5.563.0453.0	25		Z5.563.0453.0	
Pluggable jumper		Z8.000.0229.5	50		Z8.000.0229.5	
Large marker tag, white, blank		04.249.4053.0	5		04.249.4053.0	
Small marker tag		52 .5. 1000.0			52 .5000.0	
unmarked, red		04.249.1053.0	5		04.249.1053.0	
unmarked, blue		04.249.1553.0	5		04.249.1553.0	
unmarked, white		04.249.2053.0	5		04.249.2053.0	
unnared, write		04.240.2000.0	3		04.243.2033.0	

Electronic housings Modular housing system dipos housing system STEM S

Housing properties:

- Pluggable housing
- Various design widths
- Potential bridging between the housings
 Minimum of 8 connections
- Connection type: screw or spring clamp



Approvals: 🗫 🐠 22.5 x 100 x 100 (Standard)

Dimensions (mm): W x H x D

Description	Type Part No.	Std. Pack
Module base dipos UMC		
with screw terminals (screw thread M3)	80.060.2000.1	1
with spring clamp	80.060.2001.1	1
Empty housings	80.061.2010.3	1
	30.0011.2010.0	·
Technical data		
Rated voltage	230/400 V AC	
Maximum rated current	10 A per contact	
Total current	10 A	
Overvoltage category	III	
Degree of pollution	2	
Connections per side	8 terminals, 8 potentials per side	
Wire range of screw terminals	o torrimaio, o potoritiaio per side	
fine-stranded/stranded	0.2 mm ² – 2.5 mm ²	
solid	0.2 mm ² – 4 mm ²	
flexible with ferrule with/without plastic sleeve	0.25 mm ² – 2.5 mm ² / 0.25 mm ² – 1.5 mm ²	
AWG	24 – 12	
Tightening torque	0.5 – 0.6 Nm	
Wire range of spring-clamp terminal	0.08 mm ² – 2.5 mm ²	
with ferrules	0.08 mm ² – 1.5 mm ²	
AWG	28 – 12	
Bridging to the next module	8 potentials	
Bridging to the flext floadie	o potentials	
Fire protection	V2	
Type of protection	IP 20	
Ambient temperature	-25 °C+100 °C	
Storage temperature	-40 °C+100 °C	
Storage temperature	-40 C+100 C	
Descriptions standards	EN 60947-1	
Regulations, standards		
	DIN EN 50178	
	DIN VDE 0611 T1	
	VDE 0110	
	VDE 106	
Accessories		
Coding branch	Z5.563.0453.0	25
Pluggable jumper	Z8.000.0229.5	50
Large marker tag, white, blank	04.249.4053.0	5
Small marker tag		
unmarked, red	04.249.1053.0	5
unmarked, blue	04.249.1553.0	5
unmarked, white	04.249.2053.0	5

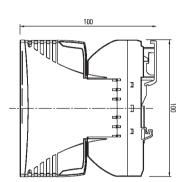
Electronic housings Modular housing system *dipos*

system

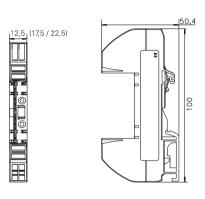
Plan view



Housing



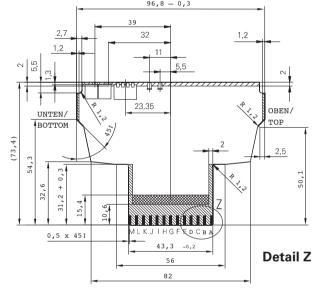
Module base

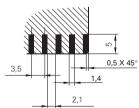


Component height Endurance	7,15 2,35	10,35 4,15	15,35 4,15
Max. component height Max. endurance	6,25 1,4	8,7 2,7	13,7 2,7
Max. component height	1,05	0,95	5,95
Blocking zones			

Note: Contact is made on both sides of the terminal faces. Components that generate heat should always be placed in the vicinity of the ventilation slots (upper section of the PCB)

PCB: FR4 Thickness: 1.0 mm Copper support: \geq 35 μ m (I \leq 3 A) ≥ 70 µm (I > 3 A)





Electronic housings Modular housing system dipos housing system

Housing properties:

- Pluggable housingVarious design widths
- Potential bridging between the housings
 Minimum of 8 connections
- Connection type: screw or spring clamp





Dimensions (mm): W x H x D

Approvals: ${}^{\bullet}$ **4. 1** being prepared: ${}^{\bullet}$ 12.5 \times 100 \times 100 (75) (Standard)

Approvals: (3) being prepared: (1) 17.5 x 100 x 100 (75) (Standard)

Description	Type Part No.	Std. Pack	Type Part No.	Std. Pac
Module base dipos UMC				
with screw terminals (screw thread M3)	80.060.0	0000.1 1	80.060.1000.1	
with spring clamp	80.060.0		80.060.1001.1	
Electronic housings 100 mm	80.062.0	100.3	80.062.1100.3	
75 mm	80.062.0	0000.3	80.062.1000.3	
Technical data				
Rated voltage	230/400 V AC		230/400 V AC	
Maximum rated current	10 A per contact		10 A per contact	
Total current	10 A		10 A	
Overvoltage category	III		III	
Degree of pollution	2		2	
Connections per side	4 terminals, 4 potentials per sid	е	6 terminals, 6 potentials per side	
Wire range of screw terminals				
fine-stranded/stranded	0.2 mm ² – 2.5 mm ²		0.2 mm ² – 2.5 mm ²	
solid	0.2 mm ² – 4 mm ²		0.2 mm ² – 4 mm ²	
flexible with ferrule with/without plastic sleeve	0.25 mm ² – 2.5 mm ² / 0.25 mm	² – 1.5 mm ²	0.25 mm ² – 2.5 mm ² / 0.25 mm ² – 1.5 n	nm²
AWG	24 – 12		24 – 12	
Tightening torque	0.5 – 0.6 Nm		0.5 – 0.6 Nm	
Wire range of spring-clamp terminal	0.08 mm ² – 2.5 mm ²		0.08 mm ² – 2.5 mm ²	
with ferrules	0.08 mm ² – 1.5 mm ²		0.08 mm ² – 1.5 mm ²	
AWG	28 – 12		28 – 12	
Bridging to the next module	4 potentials		6 potentials	
Fire protection	V2		V2	
Type of protection	IP 20		IP 20	
Ambient temperature	-25 °C+100 °C		-25 °C+100 °C	
Storage temperature	-40 °C+100 °C		-40 °C+100 °C	
Regulations, standards	EN 60947-1		EN 60947-1	
	DIN EN 50178		DIN EN 50178	
	DIN VDE 0611 T1		DIN VDE 0611 T1	
	VDE 0110		VDE 0110	
	VDE 106		VDE 106	
Accessories				
Coding branch	Z5.563.0		Z5.563.0453.0	:
Pluggable jumper	Z8.000.0		Z8.000.0229.5	Į.
Large marker tag, white, blank	04.249.4	1053.0 5	04.249.4053.0	
Small marker tag				
unmarked, red	04.249.1		04.249.1053.0	
unmarked, blue	04.249.1		04.249.1553.0	
unmarked, white	04.249.2	2053.0 5	04.249.2053.0	

Electronic housings Modular housing system *dipos*

Housing properties:

- Pluggable housing
 Various design widths
 Potential bridging between the housings
 Minimum of 8 connections
 Connection type: screw or spring clamp



Approvals: 0 being prepared: 0 22.5 \times 100 \times 100 (75) (Standard)

Dimensions (mm): W x H x D

Description	Туре	Part No.	Std. Pack
Module base dipos umc			
with screw terminals (screw thread M3)		80.060.2000.1	1
with spring clamp		80.060.2001.1	1
Electronic housings 100 mm		80.062.2100.3	1
75 mm		80.062.2000.3	1
75		00.002.2000.0	
Technical data			
Rated voltage	230/400 V AC		
Maximum rated current	10 A per contact		
Total current	10 A		
Overvoltage category	III		
Degree of pollution	2		
Connections per side	8 terminals, 8 potentia	ls per side	
Wire range of screw terminals			
fine-stranded/stranded	0.2 mm ² – 2.5 mm ²		
solid	0.2 mm ² – 4 mm ²		
flexible with ferrule with/without plastic sleeve	0.25 mm ² – 2.5 mm ² /	0.25 mm ² – 1.5 mm ²	
AWG	24 – 12		
Tightening torque	0.5 – 0.6 Nm		
Wire range of spring-clamp terminal	0.08 mm ² – 2.5 mm ²		
with ferrule	0.08 mm ² – 1.5 mm ²		
AWG	28 – 12		
Bridging to the next module	6 potentials		
E	1/0		
Fire protection	V2		
Type of protection	IP 20		
Ambient temperature	-25 °C+100 °C		
Storage temperature	-40 °C+100 °C		
Regulations, standards	EN 60947-1		
	DIN EN 50178		
	DIN VDE 0611 T1		
	VDE 0110		
	VDE 106		
	132.00		
Accessories			
Coding branch		Z5.563.0453.0	25
Pluggable jumper		Z8.000.0229.5	50
Large marker tag, white, blank		04.249.4053.0	5
Small marker tag			
unmarked, red		04.249.1053.0	5
unmarked, blue		04.249.1553.0	5
unmarked, white		04.249.2053.0	5

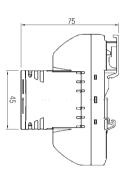
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1359

Electronic housings Modular housing system dipos housing system STEIN STEIN

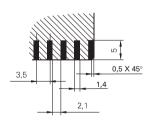
Plan view

Housing

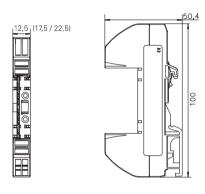


48.4 dipos EMS (in mm total height) воттом

Detail Z



Module base



Version (width in mm)	12,5	17,5	22,5
Component height Endurance	7,15 2,35	10,35 4,15	15,35 4,15
Max. component height Max. endurance	6,25 1,4	8,7 2,7	1 3,7 2,7
Max. component height	1,05	0,95	5,95
Blocking zones			

Note: Contact is made on both sides of the terminal faces. Components that generate heat should always be placed in the vicinity of the ventilation slots (upper section of the PCB)

PCB: FR4 Thickness: 1.0 mm Copper support: \geq 35 μm (I \leq 3 A) ≥ 70 µm (I > 3 A)

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Electronic housings General information on the NGG housing system

Information on electronic housings

The NGG 22.5 mm housing system series includes five types of different housing heights and depths, while the width is a constant 22.5 mm. Designs with 6, 9 or 12 terminals are available. Combined with the corresponding clamping types, the housings can be used for all applications up to a rated voltage of 500 V and a rated current of 24 A in protection degree IP 40. The technical data satisfy the rough environmental conditions of industrial applications.

The housing consists of two half shells and a front cap that can be mounted economically via a snap-in and latching connection. It is optionally suitable for installation of one or two PC boards in sandwich design. The front provides maximum space for operating and display components. It can be easily snapped onto a DIN rail according to DIN EN 50 022, or released without the use of a tool.



NGG housings

- ☐ Consistent concept of a 22.5 mm wide housing design
- □ Rated voltage up to 500 V
- ☐ Wire cross section up to 6 mm²
- ☐ Rated current up to 24 A
- ☐ 6 to 12 terminals
- □ UL approvals
- ☐ IP 40 protection degree
- ☐ Terminals on the PC board
- ☐ PC board installation in sandwich design
- ☐ Snap-on assembly
- ☐ Shell technology with three housing components
- ☐ Halogen-free, laserable plastic
- ☐ Recyclable after disassembly
- ☐ Different materials disposed of separately

Electronic housings NGG housing system housing system STEMMENT OF THE STEMME

Housing with terminals (without PC board)





K3-1 housing with 6 terminals

K3-2 housing with 9 terminals

Description	Type	Part No.	Std. Pack	Type	Part No.	Std. Pac
	K3-1-1 (6 terminals)	R9.210.0160.0	10	K3-2-10 (9 terminals)		1
Technical information on the housings						
Nominal PC board thickness	0.8 mm and 1.5 mm			0.8 mm and 1.5 mm		
Degree of protection (DIN EN 60 529: 2000-09)	IP40			IP40		
Plastic components	halogen-free, laser m	arking possible		halogen-free, laser m	arking possible	
Material	PC Makrolon 6385			PC Makrolon 6385		
Color	light gray RAL 7035 (other housing colors	on request)	light gray RAL 7035 (other housing colors	on request)
Relative temperature index (Elec. UL 746 B: 1981-04)	125°C			125°C		
Operating temperature (IEC 216-1: 1990-05)	-25°C through 110°C	;		-25°C through 110°C	;	
Creepage resistance: (IEC 112: 1979/ DIN VDE 0303-1: 1994-06)	CTI 225			CTI 225		
UL flammability rating (UL 94:1991-06)	V-0; 0.75 mm			V-0; 0.75 mm		
Glow wire resistance (VDE 0471 part 2-1/1: 1997-04)	850°C			850°C		
Rated insulation voltage (DIN VDE 0110)	500 V			500 V		

Electronic housing NGG housing system SSSEEM

Housing with terminals (without PC board)





K3-3 housing with 12 terminals

K3-3 housing with 9 terminals

Description	Type	Part No.	Std. Pack	Type	Part No.	Std. Pag
Description	K3-3-2 (12 terminals)		31u. Fack	K3-3-15 (9 terminals)		Siu. Fai
	No-o-z (12 terminals)	113.210.0180.0	10	No-o-10 (9 terminals)	118.210.0180.0	
Technical information on the housings						
Nominal PC board thickness	0.8 mm and 1.5 mm			0.8 mm and 1.5 mm		
Degree of protection (DIN EN 60 529: 2000-09)	IP40			IP40		
Plastic components	halogen-free, laser ma	arking possible		halogen-free, laser m	arking possible	
Material	PC Makrolon 6385	ariting possible		PC Makrolon 6385	arrang poconoro	
Color	light gray RAL 7035 (o	other housing colors ava	ilable on request)	light gray RAL 7035 (other housing colors ava	ailable on reque
Relative temperature index (Elec. UL 746 B: 1981-04)	125°C	Attor floading colors ava	ilabio ori roquoot,	125°C	other fledeling colors ave	inabio on roque
Operating temperature (IEC 216-1: 1990-05)	-25 °C through 110 °C			-25°C through 110°C		
Creepage resistance: (IEC 112: 1979/	CTI 225			CTI 225	,	
DIN VDE 0303-1: 1994-06)	011225			011 223		
UL flammability rating (UL 94:1991-06)	V-0; 0.75 mm			V-0; 0.75 mm		
Glow wire resistance (VDE 0471 part 2-1/1: 1997-04)	850°C			850°C		
Rated insulation voltage (DIN VDE 0110)500 V	500 V			500 V		
Traced modiation voltage (DIN VDE 0110/300 V	300 V			J00 V		

Electronic housings NGG housing system housing system STEMMENT OF THE STEMME

Housing with terminals (without PC board)

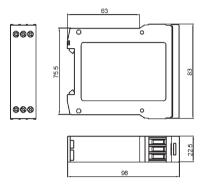


K3-4 housing with 6 terminals

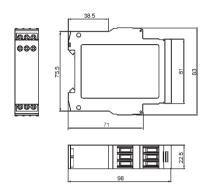
Description	Type Part No. Std. Pack	
	K3-4-1 (6 terminals) R9.210.0200.0 10	
Technical information on the housings		
Nominal PC board thickness	0.8 mm and 1.5 mm	
Degree of protection (DIN EN 60 529: 2000-09)	IP40	
Plastic components	halogen-free, laser marking possible	
Material	PC Makrolon 6385	
Color	light gray RAL 7035 (other housing colors available on request)	
Relative temperature index (Elec. UL 746 B: 1981-04)	125°C	
Operating temperature (IEC 216-1: 1990-05)	−25°C through 110°C	
Creepage resistance: (IEC 112: 1979/ DIN VDE 0303-1: 1994-06)	CTI 225	
UL flammability rating (UL 94:1991-06)	V-0; 0.75 mm	
Glow wire resistance (VDE 0471 part 2-1/1: 1997-04)	850°C	
Rated insulation voltage (DIN VDE 0110)	500 V	

Housing dimensions

Type (including terminals): K3-1-1

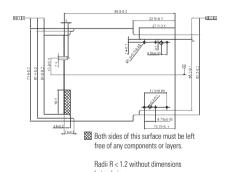


Type (including terminals): K3-2-10



PCB dimensions

Nominal thickness 1.5 mm



Both sides of this surface must be left free of any components or layers.

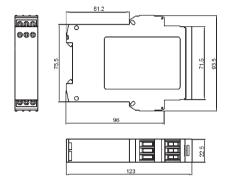
Radii R < 1.2 without dimensions

Electronic housing NGG housing system System

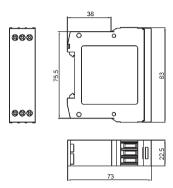
Type (including terminals): K3-3-2

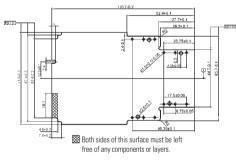
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Type (including terminals): K3-3-15

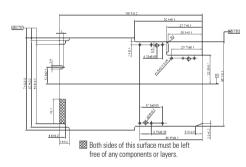


Type (including terminals): K3-4-1

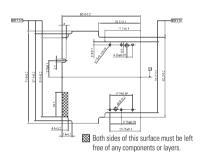




Radii R < 1.2 without dimensions



Radii R < 1.2 without dimensions



Radii R < 1.2 without dimensions Lateral view

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Electronic housing NGG housing system - terminals

Clamping body

The patented three-part terminal has been optimized for the requirements of electronics and encoder technology in industrial automation. The clamping body has been designed for print mounting. It latches into position on the PC board and can be automatically soldered without the use of special protective covers.

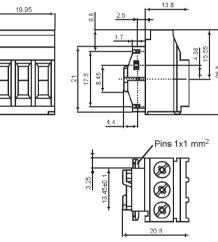
PC board assembly on the left as well as on the right side requires only one clamping body design. In addition to the reduced number of variations, the system provides the option of mounting two PC boards that are connected through the clamping bodies.

The terminal block accepts wire cross sections up to 6 mm². Captive 3 mm Pozidrive-2 screws enable torques of up to 1 Nm and are therefore suitable for use with automatic screwdrivers.

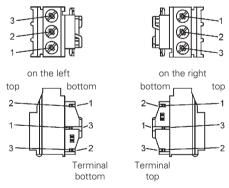


Type Part No. Std. Pac
Klemmkörper N1238-2 RN.012.3802.0
ID 20
IP 20
up to 500 V
up to 500 v
24 A
M3, captive
Screw head: +/- Pozidrive 1
Tightening torque: max. 1 Nm
1x up to 6 mm ² rigid
1x up to 4 mm² flexible with/without sleeve
2x up to 2.5 mm² rigid
2x up to 2.5 mm² flexible
2x up to 1.5 mm² flexible with sleeve
8 + 1 mm
max. 3 mΩ
outside ≥ 6.3 mm
inside ≥ 5.5 mm, soldered
250°C – 255°C, 3 s
Cu, tin-plated
Cu alloy, nickel-plated
steel, zinc-plated
PA 6.6, halogen-free
light gray RAL 7035
130°C
-40 °C through 125 °C
CTI 600
V0
960°C

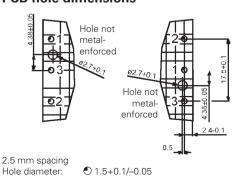
Terminals dimensions



Pin assignment



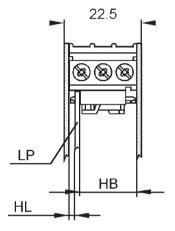
PCB hole dimensions



Hole diameter: Lateral view

Electronic housings NGG housing system – terminals housing system Sys

Maximum design heights



Placement side:

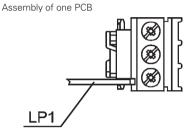
HB max. 1.6 mm

Solder side:

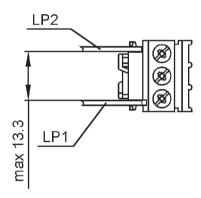
PCB 1.5 mm thick HL max. 1.5 mm

PCB 0.8 mm thick HL max. 2.2 mm

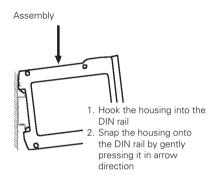
PCB assembly

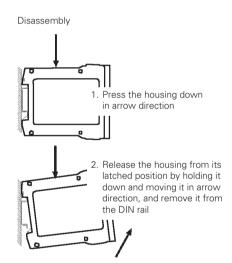


Assembly of two PCBs in sandwich design



Housing assembly





Electronic housings General information on the WEB housing system

Electronic housing features



WEB housings

- ☐ Installation housings, suitable for a variety of uses
- Series of housings can be fitted together
- □ ... as individual modules
- □ ... or as a complete system
- ☐ Mounting foot for all common TS 35/TS 32 mounting rails
- ☐ For installation of fully equipped PCBs with various connection systems
- Can be used in such areas as:
 - devices and control systems for consumer electronics
 - industrial electronics
 - control engineering
 - data systems engineering
 - suitable for universal applications
- Design available with/without components assembled (see "Electronic components" for fitted designs)
- ☐ Distribution of electronic components in most confined spaces
- WEB housing provides protection for sensitive components
- Wieland's system solution: safety and functionality with proven connection systems and high quality compact designs
- □ Benefits:
 - long service life, even under extreme conditions
 - technical design perfection
 - reliability
 - low cost
 - trouble-free application
 - many housing variations

WEB 1001 closed design

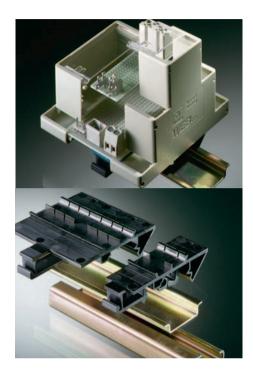
- Construction of up to 9 housing configurations without tools and using just a few individual parts
- ☐ Connection system
 - PCB connectors
 - direct mount and pluggable connectors
 - Tab connectors
 - etc
- PCB can be fitted with components and soldered independently of the housing

- ☐ Designs ranging from an overall housing height of 42 mm and a PCB size of 92.3 x 22.3 mm up to 68 mixed connections in multi-tier design
- ☐ Closed design provides protection for the electronic components
- With transparent cover for checking displays etc.
- ☐ Marking facility on the housing

WEB 1001 WEB 1002 open housing

- ☐ Height of this series: only 15.8 mm (without U foot)
- Open modules can be assembled using the 3 different elements to form any length
- ☐ Complete sets of special components can be assembled
- Numerous facilities for connecting external conductors, screw, pluggable, two-part and push-on terminals
- System advantages:
 - can be assembled quickly due to the pluggable modular system principle
 - high torsional rigidity due to the firm interconnection of the individual elements
 - can be fitted to all DIN EN mounting rails 32/35 using the universal foot

Electronic housings General information on the WEB housing system housing system



WEB connection system

- ☐ Independent of the housing component
- ☐ Up to 68 connections per housing
- No type of connection prescribed therefore screw, puggable, two-part terminals or even mixed systems can be used

Handling

- ☐ PCBs can be fitted with components independantly of the housing
- Mechanical soldering of the PCB to the terminals and components, also regard less of the housing. Selected.
- ☐ Horizontal (WEB) or vertical (WEG) arrangement of the PCBs on several levels within the housing
- Housing components can be fitted together

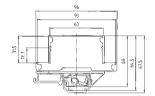
Attachment to the mounting rail

- ☐ By means of a slot mounting facility for one or more mounting feet
- U-foot for TS 32 and TS 35

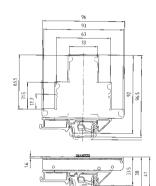
Marking systems

- ☐ Snap-on terminal and housing marking
- Multi-digit marking tags
- ☐ Single tags, marking strips
- Tear-off marking strips
- ☐ Individual marking possible using figures or symbols

WEB closed housing



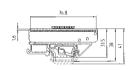
WEB closed housing



WEB open housing

WEB

open housing



1370

Electronic housings WEB housing system

Possible areas of application:

• Devices and controllers for consumer electronics

Dimensions (mm): W x H x D / for PCB

- Industrial electronics
- Control technologyData technology

Material:

PA 6 Housing: UL 94-HB PA 66 PC UL 94-V2 UL 94-HB Cover:





Size 1

 $27 \times 42 \times 96$ / for PCB 93×22

Size 2 27 x 74 x 96 / for PCB 93/63 x 22

Description		Part No.	Std. Pack		Part No.	Std. Pack
Electronic housing, complete with U-Foot, without PCB		87.010.0053.0	10		87.020.0053.0	10
Electronic housing, complete with TS 35 foot, without PCB		86.010.0053.0	10		86.020.0053.0	10
(The housings are supplied unassembled and without PCBs)						
Individual parts		203			2 10	
1. Housing		01.001.5153.0	50		01.001.5053.0	50
Cover with marking facility		04.312.0654.0	50		04.312.0554.0	50
Cover without marking facility						
3. Cover plate		07.310.8553.0	50		07.310.8453.0	50
5. Universal foot		05.583.0053.0	50		05.583.0053.0	50
Foot TS 35		Z5.595.2153.0	50		Z5.595.2153.0	50
Connection technique						
PCB connectors with 5 mm spacing	Type 8190, 8191, 8192	2, 8113, 8142		Type 8190, 8191, 819	2, 8113, 8142	
PCB connectors with 5.08 mm spacing	Type 8213, 8281, 8291	, 8292		Type 8213, 8281, 829	1, 8292	
PCB connectors with 7.5 mm spacing	Type 8313, 8390, 8391			Type 8313, 8390, 839)1	
PCB connectors with 7.62 mm spacing	Type 8413, 8491			Type 8413, 8491		
PCB connectors with 3.5 mm spacing	Type 8543, 8593			Type 8543, 8593		
PCB connectors with 3.81 mm spacing	Type 8813, 8893			Type 8813, 8893		
Accessories						
Tab connector	6.3 mm, straight	05.555.8521.0	50	6.3 mm, straight	05.555.8521.0	50
Tab connector	6.3 mm, angled	05.555.8721.0	50	6.3 mm, angled	05.555.8721.0	50
Tab connector	2 x 2.8 mm, straight	05.555.9121.0	50	2 x 2.8 mm, straight	05.555.9121.0	50
Tab connector	2 x 2.8 mm, angled	05.555.8921.0	50	2 x 2.8 mm, angled	05.555.8921.0	50
Tab connector	2.8 mm, straight	05.555.8621.0	50	2.8 mm, straight	05.555.8621.0	50
Tab connector	2.8 mm, angled	05.555.8821.0	50	2.8 mm, angled	05.555.8821.0	50
Tab connector: Materials	Ms tin-plated			Ms tin-plated		
PCB hole diameter	1.3 – 1.4 mm			1.3 – 1.4 mm		
PCB hole spacing	5 mm			5 mm		
Manustina vii OF DIN vii 7 F1 1 1 1 0	0F 07 7 F EN F0000	00 000 0000 0	4	0F 07 7 F EN F000	00 000 0000 0	
Mounting rail 35, DIN rail 7.5 high L = 2 m	35 x 27 x 7.5 EN 50022		1	35 x 27 x 7.5 EN 5002		1
Mounting rail 35, DIN rail 15 high L = 2 m	35 x 24 x 15 EN 50022		1	35 x 24 x 15 EN 50022		1
Mounting rail 32, G-rail L = 2 m	9006 EN 50035 G-32		1	9006 EN 50035 G-32		100
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	100
End clamp, Polyamide 10 mm wide U-Foot		Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
Marking tag carrier	9003 C/4	04.242.1050.0	200	9003 C/4	04.242.1050.0	200
Marking tag, unmarked	9003 C	04.241.0651.0	500	9003 C	04.241.0651.0	500
Marking tag, marked	9003 CB	04.841.0651.0	500	9003 CB	04.841.0651.0	500
ubject to change without further notice					wieland	137

Electronic housing WEB housing system System

Possible areas of application:

- Devices and controllers for consumer electronics
- Industrial electronics
- Control technology
- Data technology

Material:

Housing: PA 6 UL 94-HB Foot: PA 66 UL 94-V2 Cover: PC UL 94-HB

Dimensions (mm): W x H x D / for PCB





Size 3

48 x 42 x 96 / for PCB 93 x 45

Size 4

48 x 74 x 96 / for PCB 93/63 x 45

Description		Part No.	Std. Pack		Part No.	Std. Pack
Electronic housings, complete with U-Foot, without PCB		87.030.0053.0	10		87.040.0053.0	10
Electronic housings, complete with TS 35 foot, without PCB		86.030.0053.0	10		86.040.0053.0	10
(The housings are supplied unassembled and without PCBs)						
Without PCBS/						
		2 10 2 11		<u>u</u>	2 10 2	ua J
Individual parts						
1. Housing	2 x	01.001.5153.0	50	2 x	01.001.5053.0	50
Cover with marking facility	2 x	04.312.0654.0	50	2 x	04.312.0554.0	50
Cover without marking facility	1 x	04.312.3054.0	10	1 x	04.312.3354.0	50
5. Universal foot		05.583.0053.0	50		05.583.0053.0	50
Foot TS 35		Z5.595.2153.0	50		Z5.595.2153.0	50
Connection technique						
PCB connectors with 5 mm spacing	Type 8190, 8191, 8192, 8113, 8142			Type 8190, 8191,8192, 8113, 8142		
PCB connectors with 5.08 mm spacing	Type 8213, 8281,8291, 8292			Type 8213, 8281,8291, 8292		
PCB connectors with 7.5 mm spacing	Type 8313, 8390, 8391			Type 8313, 8390, 8391		
PCB connectors with 7.62 mm spacing	Type 8413, 8491			Type 8413, 8491		
PCB connectors with 3.5 mm spacing	Type 8543, 8593			Type 8543, 8593		
PCB connectors with 3.81 mm spacing	Type 8813, 8893			Type 8813, 8893		
Accessories						
Tab connector	6.3 mm, straight	05.555.8521.0	50	6.3 mm, straight	05.555.8521.0	50
Tab connector	6.3 mm, angled	05.555.8721.0	50	6.3 mm, angled	05.555.8721.0	50
Tab connector	2 x 2.8 mm, straight	05.555.9121.0	50	2 x 2.8 mm, straight	05.555.9121.0	50
Tab connector	2 x 2.8 mm, angled	05.555.8921.0	50	2 x 2.8 mm, angled	05.555.8921.0	50
Tab connector	2.8 mm, straight	05.555.8621.0	50	2.8 mm, straight	05.555.8621.0	50
Tab connector	2.8 mm, angled	05.555.8821.0	50	2.8 mm, angled	05.555.8821.0	50
Tab connector: Materials	Ms tin-plated			Ms tin-plated		
PCB hole diameter	1.3 -1.4 mm			1.3 -1.4 mm		
PCB hole spacing	5 mm			5 mm		
Mounting rail 35, DIN rail 7.5 high L = 2 m	35 x 27 x 7.5 EN 50022	98.300.0000.0	1	35 x 27 x 7.5 EN 50022	98.300.0000.0	1
Mounting rail 35, DIN rail 15 high L = 2 m	35 x 24 x 15 EN 50022	98.360.0000.0	1	35 x 24 x 15 EN 50022	98.360.0000.0	1
Mounting rail 32, G-rail L = 2 m	9006 EN 50035 G-32	98.190.0000.0	1	9006 EN 50035 G-32	98.190.0000.0	1
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35	Z5.522.8553.0	100	009708/2 S 35	Z5.522.8553.0	100
End clamp, Polyamide 10 mm wide U-Foot	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	100
Marking tag carrier	9003 C/4	04.242.1050.0	200	9003 C/4	04.242.1050.0	200
Marking tag, unmarked	9003 C	04.241.0651.0	500	9003 C	04.241.0651.0	500
Marking tag, marked	9003 CB	04.841.0651.0	500	9003 CB	04.841.0651.0	500

Electronic housings WEB housing system

Possible areas of application:

• Devices and controllers for consumer electronics

Dimensions (mm): W x H x D / for PCB

- Industrial electronics
- Control technologyData technology

Material:

PA 6 Housing: UL 94-HB PA 66 PC Foot: UL 94-V2 UL 94-HB Cover:





Size 6

70.5 x 42 x 96 / for PCB 93 x 67

Size 7 70.5 x 74 x 96 / for PCB 93/63 x 67

Description		Part No.	Std. Pack		Part No.	Std. Pac
Electronic housings, complete with U-Foot, without PCB		87.060.0053.0	10		87.070.0053.0	10
(The housings are supplied unassembled and		_	-			
without PCBs)		14 6		() () () () () () () () () ()	3	
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	`	2 Edining the State of the Stat			2	
Individual parts		<u> </u>				
1. Housing		01.001.5153.0	50		01.001.5353.0	1
Housing		01.001.5453.0	50		01.001.5053.0	5
2. Cover		04.312.3154.0	50		04.312.3454.0	5
4. Universal foot		05.583.0153.0	50		05.583.0153.0	5
Connection technique						
PCB connectors with 5 mm spacing	Type 8190, 8191, 8192,	8113, 8142		Type 8190, 8191, 8192	, 8113, 8142	
· •						
PCB connectors with 5.08 mm spacing	Type 8213, 8281, 8291, 8292			Type 8213, 8281, 8291, 8292		
PCB connectors with 7.5 mm spacing	Type 8313, 8390, 8391		Type 8313, 8390, 8391			
PCB connectors with 7.62 mm spacing	Type 8413, 8491			Type 8413, 8491		
PCB connectors with 3.5 mm spacing PCB connectors with 3.81 mm spacing	Type 8543, 8593 Type 8813, 8893			Type 8543, 8593		
PCB connectors with 3.61 min spacing	Type 6613, 6693			Type 8813, 8893		
Technical data						
Materials	Ms tin-plated			Ms tin-plated		
PCB hole diameter	1.3 –1.4 mm			1.3 –1.4 mm		
PCB hole spacing	5 mm			5 mm		
Accessories						
Tab connector	6.3 mm, straight	05.555.8521.0	50	6.3 mm, straight	05.555.8521.0	5
Tab connector	6.3 mm, angled	05.555.8721.0	50	6.3 mm, angled	05.555.8721.0	5
Tab connector	2 x 2.8 mm, straight	05.555.9121.0	50	2 x 2.8 mm, straight	05.555.9121.0	5
Tab connector	2 x 2.8 mm, angled	05.555.8921.0	50	2 x 2.8 mm, angled	05.555.8921.0	5
Tab connector	2.8 mm, straight	05.555.8621.0	50	2.8 mm, straight	05.555.8621.0	5
Tab connector	2.8 mm, angled	05.555.8821.0	50	2.8 mm, angled	05.555.8821.0	
Mounting rail 35, DIN rail 7.5 high L = 2 m	35 x 27 x 7.5 EN 50022	98.300.0000.0	1	35 x 27 x 7.5 EN 50022	98.300.0000.0	
Mounting rail 35, DIN rail 15 hoc L = 2 m	35 x 24 x 15 EN 50022	98.360.0000.0	1	35 x 24 x 15 EN 50022	98.360.0000.0	
Mounting rail 32, G-rail L = 2 m	9006 EN 50035 G-32	98.190.0000.0	1	9006 EN 50035 G-32	98.190.0000.0	
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	10
End clamp, Polyamide 10 mm wide U-Foot	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	10
Marking tag carrier	9003 C/4	04.242.1050.0	200	9003 C/4	04.242.1050.0	20
Marking tag, unmarked	9003 C	04.241.0651.0	500	9003 C	04.241.0651.0	50
Marking tag, marked	9003 CB	04.841.0651.0	500	9003 CB	04.841.0651.0	50
bject to change without further notice					wieland	13

Electronic housings WEB housing system housing system STEM

Possible areas of application:

- Devices and controllers for consumers electronics
- Industrial electronics
- Control technology
- Data technology

Material:

Housing: PA 6 UL 94-HB Foot: PA 66 UL 94-V2 Cover: PC UL 94-HB

Dimensions (mm): W x H x D / for PCB





Size 8

93 x 42 x 96 / for PCB 93 x 89.6

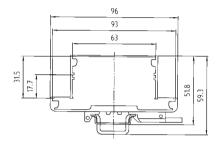
Size 9 93 x 74 x 96 / for PCB 93/63 x 89.6

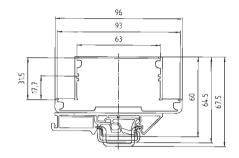
December 1		David Ma	Ctal David		David Ma	Ct-l D
Description		Part No.	Std. Pack		Part No.	Std. Pac
Electronic housings, complete with U-Foot, without PCB		87.080.0053.0	10	e=="1	87.090.0053.0	1
(The housings are supplied unassembled and without PCBs)		3			3 3	
	A	2			2	
Individual parts						
1. Housing		01.001.5453.0	50		01.001.5353.0	1
Housing		01.001.5453.0	50		01.001.5353.0	1
2. Cover		04.312.3254.0	50		04.312.3554.0	5
4. Universal foot		05.583.0153.0	50		05.583.0153.0	5
Connection technique						
PCB connectors with 5 mm spacing	Type 8190, 8191, 8192,	8113, 8142		Type 8190, 8191, 8192,	8113, 8142	
PCB connectors with 5.08 mm spacing	Type 8213, 8281, 8291,	8292		Type 8213, 8281, 8291,	8292	
PCB connectors with 7.5 mm spacing	Type 8313, 8390, 8391			Type 8313, 8390, 8391		
PCB connectors with 7.62 mm spacing	Type 8413, 8491			Type 8413, 8491		
PCB connectors with 3.5 mm spacing	Type 8543, 8593			Type 8543, 8593		
PCB connectors with 3.81 mm spacing	Type 8813, 8893			Type 8813, 8893		
Technical data						
Materials	Ms tin-plated			Ms tin-plated		
PCB hole diameter	1.3 – 1.4 mm			1.3 – 1.4 mm		
PCB hole spacing	5 mm			5 mm		
Accessories						
Tab connector	6.3 mm, straight	05.555.8521.0	50	6.3 mm, straight	05.555.8521.0	5
Tab connector	6.3 mm, angled	05.555.8721.0	50	6.3 mm, angled	05.555.8721.0	5
Tab connector	2 x 2.8 mm, straight	05.555.9121.0	50	2 x 2.8 mm, straight	05.555.9121.0	5
Tab connector	2 x 2.8 mm, angled	05.555.8921.0	50	2 x 2.8 mm, angled	05.555.8921.0	5
Tab connector	2.8 mm, straight	05.555.8621.0	50	2.8 mm, straight	05.555.8621.0	5
Tab connector	2.8 mm, angled	05.555.8821.0	50	2.8 mm, angled	05.555.8821.0	Ę
Mounting rail 35, DIN rail 7.5 high L = 2 m	35 x 27 x 7.5 EN 50022	98.300.0000.0	1	35 x 27 x 7.5 EN 50022	98.300.0000.0	
Mounting rail 35, DIN rail 15 high L = 2 m	35 x 24 x 15 EN 50022		1	35 x 24 x 15 EN 50022		
Mounting rail 32, G rail L = 2 m	9006 EN 50035 G-32	98.190.0000.0	1	9006 EN 50035 G-32	98.190.0000.0	
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35	Z5.522.8553.0	100	9708/2 S 35	Z5.522.8553.0	10
End clamp, Polyamide 10 mm wide U-Foot	WE 1/U	Z5.523.5753.0	100	WE 1/U	Z5.523.5753.0	10
Marking tag carrier	9003 C/4	04.242.1050.0	200	9003 C/4	04.242.1050.0	20
Marking tag, unmarked	9003 C	04.241.0651.0	500	9003 C	04.241.0651.0	50
Marking tag, marked	9003 CB	04.841.0651.0	500	9003 CB	04.841.0651.0	50

Electronic housings WEB housing system

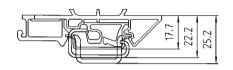
Dimensions for WEB housing for sizes 1, 3, 6 and 8 with TS 35 foot

Dimensions for WEB housing for sizes 1, 3, 6 and 8 with universal foot



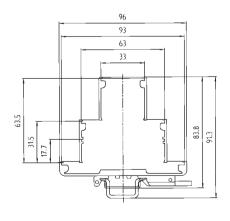


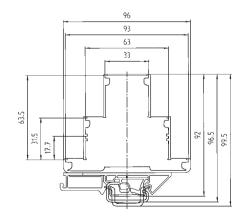
Dimensions of universal foot



Dimensions for WEB housing for sizes 2, 4, 7 and 9 with TS 35 foot

Dimensions for WEB housing for sizes 2, 4, 7 and 9 with universal foot





Electronic housings WEB housing system housing system STEMMENT OF THE STEMME

System advantages:

- Open modules can be snapped together to any length
- Complete custom design possible
- The modular design enables quick assembly
- High torsional rigidity due to the firm interconnection of the individual elements
- Can be snapped onto all 32/35 DIN rails using the universal foot

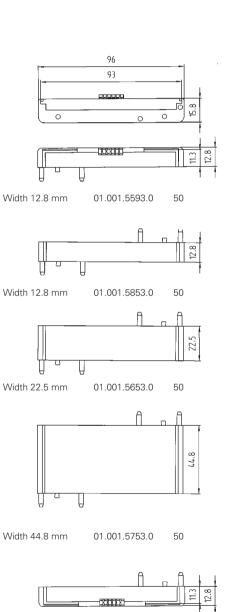
Material:

PA 6 GU30 UL 94-HB Housing: Foot: PA 66 UL 94-V2



WEB 1001

mensions (mm): W x H x D	WEB 1001 Variable x 96 x 33.5		
Individual parts	Type	Part No.	Std. Pack
1. End cover with marking tag carrier	12.8 mm wide	01.001.5593.0	50
1. End cover without marking tag carrier	12.8 mm wide	01.001.5953.0	10
2. Middle section of housing	12.8 mm wide	01.001.5853.0	50
3. Middle section of housing	22.5 mm wide	01.001.5653.0	50
4. Middle section of housing	44.8 mm wide	01.001.5753.0	50
5. Universal foot	23 mm wide	05.583.0053.0	50
5. Universal foot (overall width from 70.4 mm and wider)	68 mm wide	05.583.0153.0	50
	91	96	141
Accessories Mounting rail 35, DIN rail 7.5 mm high L = 2 m Mounting rail 35, DIN rail 15 mm high L = 2 m Mounting rail 32, G-rail L = 2 m	35 x 27 x 7.5 EN 50022 35 x 24 x 15 EN 50022 9006 EN 50035 G-32	98.360.0000.0	1
PCB (not included)	see drawing for dimen	98.190.0000.0	
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35	Z5.522.8553.0	100
End clamp, Polyamide 10 mm wide U-Foot	WE 1/U	Z5.522.6553.0 Z5.523.5753.0	100
	9003 C		500
Marking tag, unmarked		04.242.0850.0	
Marking tag, marked	9003 CB	04.842.0850.0	500



01.001.5593.0

05.583.0053.0

05.583.0153.0

Universal foot

Width 23 mm

Width 68 mm

(overall width from 70.4 mm)

50

50

Electronic housings WEB housing system

- System advantages:
 Open modules can be snapped together to any length
- Complete custom design possible
- The modular design enables quick assembly
- High torsional rigidity due to the firm interconnection of the individual elements
- Can be snapped onto all 32/35 DIN rails using the universal foot

Material:

PA 6 GU30 UL 94-HB Housing: Foot: PA 66 UL 94-V2

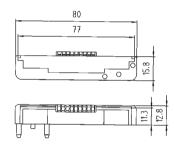


WEB 1002

Dimensions (mm): W x H x D

Variable x 80 x 33.5

imensions (mm): vv x H x D	variable x 80 x 33.5				
Individual parts	Type	Part No.	Std. Pac		
1. End cover with marking tag carrier	12.8 mm wide	01.001.6493.0	5		
2. Middle section of housing	12.8 mm wide	01.001.6553.0	5		
3. Middle section of housing	22.5 mm wide	01.001.6653.0	5		
4. Middle section of housing	44.8 mm wide	01.001.6753.0	5		
5. Universal foot	23 mm wide	05.584.8853.0	5		
5. Universal foot (overall width from 70.4 mm and wider)	68 mm wide	05.584.8953.0	5		
	52	80 77 55 85 85	41		
Accessories Mounting rail 35, DIN rail 7.5 mm high L = 2 m Mounting rail 35, DIN rail 15 mm high L = 2 m Mounting rail 32, G-rail L = 2 m	35 x 27 x 7.5 EN 50022 35 x 24 x 15 EN 50022 9006 EN 50035 G-32	98.300.0000.0 98.360.0000.0 98.190.0000.0			
PCB (not included)	see drawing for dimensions				
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35	Z5.522.8553.0	10		
End clamp, Polyamide 10 mm wide U-Foot	WE 1/U	Z5.523.5753.0	10		
Marking tag, unmarked	9003 C	04.242.0850.0	50		
Marking tag, marked	9003 CB	04.842.0850.0	50		
ivial killy tay, marked	9003 CD	04.042.0050.0	- 50		



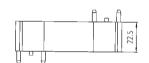
Width 12.8 mm

01.001.6493.0 50



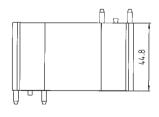
Width 12.8 mm

01.001.6553.0 50



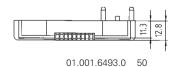
Width 22.5 mm

01.001.6653.0 50

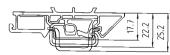


Width 44.8 mm

01.001.6753.0 50



Universal foot



Width 23 mm Width 68 mm 05.584.8853.0 50 05.584.8953.0 50

(overall width from 70.4 mm)

Electronic housings WEB housing system NEB housing system housing system System System NEB housing sy

with integrated U-foot

- System advantages:

 Open modules can be snapped together for any length
- Complete custom design possible
- The modular design enables quick assembly
- High torsional rigidity due to the firm interconnection of the individual elements
- Can be snapped onto all 32/35 DIN rails using the universal foot

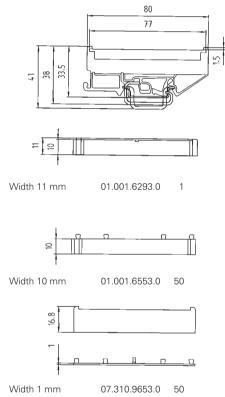
Material:

PA 6 GU30 UL 94-HB Housing: Foot: PA 66 UL 94-V2



WEB 1002 with integrated U-Foot

mensions (mm): W x H x D	Variable x 80 x 33.5			
Individual parts	Type	Part No.	Std. Pac	
1. End cover with integrated U-foot	11 mm wide	01.001.6293.0		
2. Middle section with integrated U-foot	10 mm wide	01.001.6353.0	5	
3. End plate	1 mm wide	07.310.9653.0	5	
		35 25	7.5	
Accessories Mounting rail 35, DIN rail 7.5 mm high L = 2 m Mounting rail 35, DIN rail 15 mm high L = 2 m Mounting rail 32, G-rail L = 2 m		0022 98.300.0000.0 0022 98.360.0000.0 32 98.190.0000.0		
PCB (not included)	see drawing for di			
End clamp, Polyamide 8 mm wide TS 35	9708/2 S 35	Z5.522.8553.0	10	
End clamp, Polyamide 10 mm wide U-Foot	WE 1/U	Z5.523.5753.0	10	
Marking tag, unmarked	9003 C	04.242.0850.0	50	
Marking tag, marked	9003 CB	04.842.0850.0	50	



Electronic housings Marking accessories for WEB housing system

Material: Polyamide 66/6 Color: black figures on white background







Marking tag carrier 10 mm spacing

Type	Part No.	Std. Pack
marked for 5	terminals (every	2nd tag)

9705 A/5/10/5 B

04.842.5553.0 25

Marking tag 3 digits

Single 1	tag
----------	-----

Type	Part No.	Std.	Pack
unmarked			
9705 A	04.242.085	0.0	500

marked*

9705 AB

04 842 0850 0 500

* Please indicate the required marking together with the part number!

Standard pack = 500 tags

Marking strip 10 mm spacing

i o i i i i o paoii i	9		
Туре	Part No.	Std. P	ack
unmarked			
9705 A/5/10	04.242.505	3.0	25
marked*			
9705 A/5/10 B	04.842.505	3.0	25

with enlarged marking area 9705 AL/5/10 04.242.5153.0 25

* Please indicate the required marking together with the part number!

Standard pack = 25 strips = 250 tags



Marking tag carrier for WEB housings

04.242.1050.0 200

Marking tag 8 digits

unmarked

Single tag

9705 AL 04.242.1553.0 500

marked*

9705 ALB 04.842.1553.0 500

* Please indicate the required marking together with the part number!

Standard pack = 500 tags



Marking strip 5 mm spacing

9705 A/5/9 B 04.842.4953.0 25

Marking on the strips:

Standard pack = 25 strips = 225 tags

wieland

Electronic housings Marking accessories for WEB housing system housing system







Bezeichnungsschilderast mit 10 Bezeichnungsschildern	Marking per strip	Type Part No. Std. Pack
unmarked		9704 A 04.241.1150.0 25
marked with the same number	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9704 A/1 B 04.841.1150.0 25 9704 A/2 B 04.841.1250.0 25 9704 A/3 B 04.841.1350.0 25 9704 A/4 B 04.841.1450.0 25 9704 A/5 B 04.841.1450.0 25 9704 A/6 B 04.841.1650.0 25 9704 A/7 B 04.841.1650.0 25 9704 A/8 B 04.841.1850.0 25 9704 A/8 B 04.841.1850.0 25 9704 A/9 B 04.841.1950.0 25 9704 A/9 B 04.841.1950.0 25 9704 A/0 B 04.841.2050.0 25
marked with consecutive numbers	1 2 3 4 5 6 7 8 9 0	9704 A/1-0 B 04.841.2150.0 25
marked with the same upper-case letters	A A A A A A A A A A A A A A A A A A A	9704 A/AG B 9704 A/AG B 9704 A/AG B 9704 A/AG B 9704 A/CG B
marked with the same lower-case letters	a a a a a a a a a a a a a a a a a b	9704 A/AK B 9704 A/AK B 9704 A/BK B 04.841.4950.0 25 9704 A/CK B 9704 A/CK B 9704 A/CK B 9704 A/DK B 9704 A/EK B 04.841.5150.0 25 9704 A/EK B 9704 A/E
1 set of the same numbers = 10 x 25 strips = 2500 numbers		9/04 A/- B

housing system