



YOUR  
ADVANTAGE

- Convincing ergonomics; unique design.
- Ideal for remote controls, with cables or with battery compartment.
- Cable strain relief for size L for cables with cross section 3.4 - 5.9 mm. Cable strain relief already included.
- Optional in material permeable to infra-red signals from stock. Bottom in PMMA (plexiglass®), top part in Polystyrene. For utmost efficiency the front face is polished.
- Recessed operating area to protect the membrane keyboard (L/M).
- Practical belt / pocket clip (size L/M), please refer to page 18 for part-no.

STANDARD  
COLOURS

Off-white, RAL 9002.  
Black, RAL 9005.

Fine textured surface. Please refer to colour chart on page 214.

## MATERIAL

High-impact Polystyrene (UL 94 HB) or PMMA (plexiglass®) permeable to infra-red signals. Please refer to the specifications on pages 215-217.



## APPLICATIONS

Remote controls of all types, wireless or with cable connection. Especially suitable for use in hospitals and social fields as well as in industry and households.



Signal transmitter with a set of keys.

## ERGONOMIC AND SMART

This new case design is extremely convincing with its unique contoured profile, which fits comfortably in the hand for ease of use.

The SMART-CASES are available in 3 sizes.

Ideally suited for rubber keyboards and press buttons, SMART-CASE L and M can also be used together with membrane keyboards.

MODIFICATIONS  
AS PER  
CUSTOMER'S  
REQUIREMENTS

Machining on modern CNC-controlled machines. Lacquering. Silk screen and tamper printing. See pages 210-213.

## DESIGN

Miniature case composed of 2 parts. Top and base part are assembled by 1 screw.

With location bar for a keyring. Space for a 12 V round cell and small round cells (similar to watch batteries).

## SUPPLY

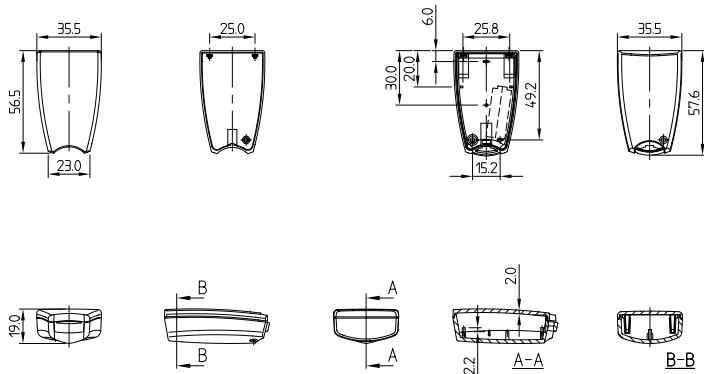
1 base and 1 top part with 1 self-tapping screw.



PROTECTION CLASS IP 40

Detailed drawing available on demand in dwg or dxf format.

= Type of screw for case fixing: cross head



Max. size of PCB: drawing available on demand

H (PHI)

## MODIFICATIONS AS PER CUSTOMER'S REQUIREMENTS

See pages 210-213.

CASE			Colour	Material	Part-No.	
Outside dimensions in mm	L	W				H
	57,6	35,5	19	off-white	Polystyrene	A 90 64 107
	57,6	35,5	19	black	Polystyrene	A 90 64 109
	57,6	35,5	19	black	PMMA (plexiglass®)	A 90 64 209
ACCESSORIES						
Article	Version					
Keyring	nickel-plated, ø 20.5 mm					

A 91 64 001



## DESIGN

Ergonomic case composed of two parts. Location at the front along with a screw in the center of the case. Integrated supports for two 1.5 V micro cells (AAA).

## SUPPLY

1 base and 1 top part with 1 self-tapping screw.

## PROTECTION CLASS IP 41

### VERSION I

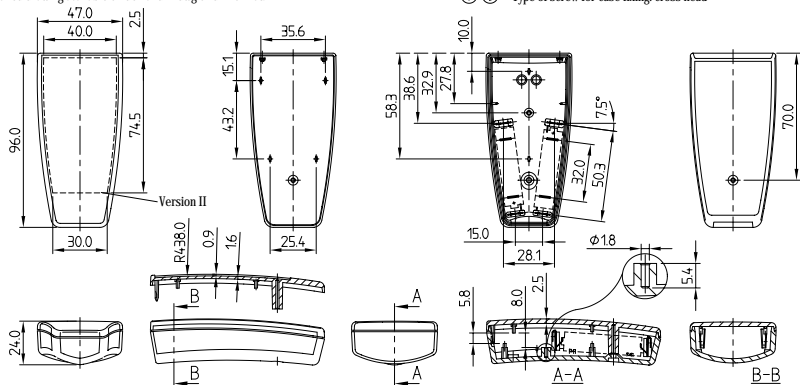
Case-top without recessed operating area.

### VERSION II

NEW: Case-top with recessed operating area.

Detailed drawing available on demand in dwg or dxf format.

= Type of screw for case fixing: cross head



Max. size of PCB: drawing available on demand

Z (PZ1)

Part-No.		CASE		Colour	Material	
Version I	Version II	Outside dimensions in mm				
L	W	H				
A 90 66 107	A 90 66 117	96	47	24	off-white, RAL 9002	Polystyrene (UL 94 HB)
A 90 66 109	A 90 66 119	96	47	24	black, RAL 9005	Polystyrene (UL 94 HB)
A 90 66 209	A 90 66 219	96	47	24	black, RAL 9005	PMMA (plexiglass <sup>®</sup> )
ACCESSORIES						
Article		Version				
A 91 66 001		Set of battery clips tin plated, for two 1.5 V micro cells (AAA)				
Description and references for Belt/Pocket clip see page 18.						

MODIFICATIONS AS PER CUSTOMER'S REQUIREMENTS

See pages 210-213.

## DESIGN

Large, ergonomic hand-held box. Solid design. With recessed operating area, e.g. for membrane keyboards. Comprising three parts and externally accessible battery compartment for two 1.5 V mignon cells (AA) or a 9 V flat battery. Additional versions with cable strain relief, suitable for round cables  $\varnothing$  5.0 - 5.9 mm. IP 65 with sealing (acc.), tested with cable  $\varnothing$  5.8 mm.

## SUPPLY

Case-top and base, assembly kit. Battery compartment lid and cable strain relief is already included in the supply for the corresponding version.



**VERSION I**  
With battery compartment.

**VERSION II**  
Without battery compartment. Sealed up to IP 65.

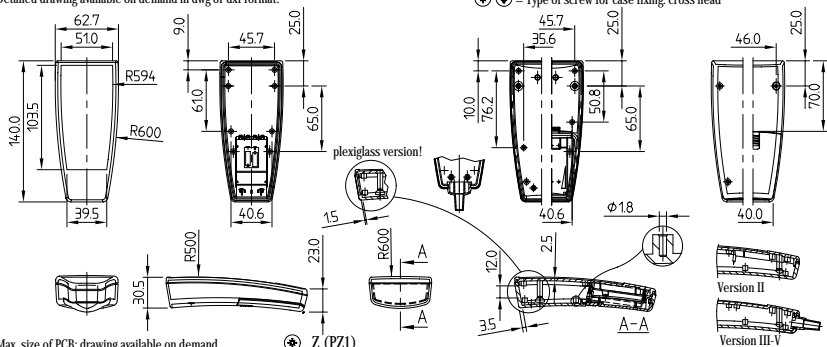
**VERSION III**  
Without battery comp. Base with cutout for cable strain relief, suitable for round cables  $\varnothing$  5.0 - 5.9 mm. IP 65 with sealing (acc.), tested with cable  $\varnothing$  5.8 mm.

**VERSION IV**  
Without battery comp. Base with cutout for cable strain relief, suitable for round cables  $\varnothing$  4.2 - 5.0 mm.

**VERSION V**  
Without battery comp. Base with cutout for cable strain relief, suitable for round cables  $\varnothing$  3.4 - 4.2 mm.

Detailed drawing available on demand in dwg or dxf format.

= Type of screw for case fixing: cross head



Max. size of PCB: drawing available on demand

Z (PZ1)

## MODIFICATIONS AS PER CUSTOMER'S REQUIREMENTS

See pages 210-213.

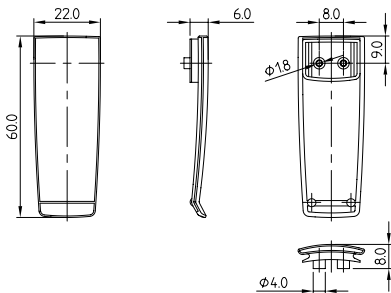
CASE	Outside dimensions in mm		Colour	Material	Part-No.			
	L	W			H	Version I	Version II	Version III
140	62,7	30,5	off-white	Polystyrene (UL 94 HB)	A 90 67 107	A 90 67 117		
140	62,7	30,5	black	Polystyrene (UL 94 HB)	A 90 67 109	A 90 67 119		
140	62,7	30,5	black	base PMMA, top Polystyrene (UL 94 HB)	A 90 67 209	-		
							Version III	Version IV
140	62,7	30,5	off-white	Polystyrene (UL 94 HB)			A 90 67 127	A 90 67 137
140	62,7	30,5	black	Polystyrene (UL 94 HB)			A 90 67 129	A 90 67 147
								Version IV
								Version V
ACCESSORIES								
Article			Version					
Set of battery clips			tin plated, for two 1.5 V mignon cells (AA)					A 91 90 002
Plug-in contact			for 1 x 9 V flat battery (PP3)					A 91 60 003
Sealing kit			for versions II-V, for a higher protection class					A 91 67 002

## BELT / POCKET CLIP

Special clip for Smart-Case M and L. The versions are already provided with premoulded center holes which can be drilled or punched in order to fit the clip.

Supply:

- 1 belt / pocket clip.
- 2 fixing screws  $\varnothing 2.2 \times 6$  mm.



Part-No.

A 91 67 017

A 91 67 019

Article / Colour

Belt / Pocket clip, off-white RAL 9002

Belt / Pocket clip, black RAL 9005