

#### Harmonious blend of materials

The new SYNERGY combines the advantages of plastic and aluminium in one single enclosure concept:

- a modern range of enclosures in 4 basic geometrical shapes square, rectangular, circular and oval \*\*\* iF product design award \*\*\*
- 36 enclosure sizes, with plenty of room for the electronics and operating elements
- screw connection with stainless steel screws and Torx drive
- colour combination: Aluminium, anodised in silver / plastic parts black
- plenty of space for interfaces, no inclined surfaces, easy assembly
- recessed surface in the top part for decor foils or membrane keyboards
- bottom part with opening and screw-down cover: practical for the use of a battery compartment or for access to the interior, e.g. for a memory card or batteries that are mounted directly on the PCB; battery compartment kit, battery clips for mounting on PCBs and button cell holder as accessories
- cable outlet in the bottom part (extra-flat network cable, round cable up to Ø 4 mm)
- battery compartment kit, wall suspension element and extender (for increasing the height of the domes) as accessories
- individual enclosure solutions on request

### **Designer Statement**

"The special feature of SYNERGY is its high-quality appearance. Right from the very start, the main focus of development was the quality of the materials aluminium and plastic. The timeless basic geometric shapes, the discreetly contoured and trimmed operating panels, as well as the intelligent installation technology results in enclosures that meet the aesthetic demands of your customers. And since single elements can be individually processed in length, the variety of shapes, dimensions and functional variants has created an enormous spectrum of possibilities: altogether a high-quality business."

Martin Nußberger, polyform Industrie Design





















#### **Applications and Examples**

Data systems engineering, network technology, building services systems, safety engineering, medical and therapeutic applications, measurement and control technology, IoT/IIoT, gateways, sensors, optoelectronics, etc.



Access control system



Battery filler for aviation batteries



CO2 traffic light



Electromagnetic impulse therapy with infrared light



Individual room control panels



Measuring system for creating metabolic profiles



**Talking Thermostat** 



UHF RFID reader/writer



Ventilation system control



Wireless network access point

### **Customising Options**

What do you still need for your own very personal product? We can supply enclosures and tuning knobs with all necessary modifications for fitting your electronic components.

Customising options for Synergy



### GEHÄUSE SYSTEME

# **SYNERGY**



Machining



**Printing** 



Laser marking



Decor foils



**EMC** shielding



Installation / Assembly of accessories

#### **Select Versions**



EE163059 SYNERGY E160 Aluminium AlMgSi 0.5 matt anodised 160x80x40mm IP 40



EE166059 SYNERGY E160 Aluminium AlMgSi 0.5 matt anodised 160x80x70mm IP 40



EE169059 SYNERGY E160 Aluminium AlMgSi 0.5 matt anodised 160x80x100mm IP 40



EE183059 SYNERGY E180 Aluminium AlMgSi 0.5 matt anodised 180x90x40mm IP 40



EE186059 SYNERGY E180 Aluminium AlMgSi 0.5 matt anodised 180x90x70mm IP 40



EE189059 SYNERGY E180 Aluminium AlMgSi 0.5 matt anodised 180x90x100mm IP 40



EE203059 SYNERGY E200 Aluminium AlMgSi 0.5 matt anodised 200x100x40mm IP 40



EE206059 SYNERGY E200 Aluminium AlMgSi 0.5 matt anodised 200x100x70mm IP 40





EE209059 SYNERGY E200 Aluminium AIMgSi 0.5 matt anodised 200x100x100mm IP 40



EO163059 SYNERGY O160 Aluminium AlMgSi 0.5 matt anodised 160x80x40mm IP 40



EO166059 SYNERGY O160 Aluminium AlMgSi 0.5 matt anodised 160x80x70mm IP 40



EO169059 SYNERGY O160 Aluminium AIMgSi 0.5 matt anodised 160x80x100mm IP 40



EO183059 SYNERGY O180 Aluminium AIMgSi 0.5 matt anodised 180x90x40mm IP 40



EO186059 SYNERGY O180 Aluminium AIMgSi 0.5 matt anodised 180x90x70mm IP 40



EO189059 SYNERGY O180 Aluminium AIMgSi 0.5 matt anodised 180x90x100mm IP 40



EO203059 SYNERGY O200 Aluminium AIMgSi 0.5 matt anodised 200x100x40mm IP 40



EO206059 SYNERGY O200 Aluminium AIMgSi 0.5 matt anodised 200x100x70mm IP 40



EO209059 SYNERGY O200 Aluminium AlMgSi 0.5 matt anodised 200x100x100mm IP 40



ER103059 SYNERGY R100 Aluminium AlMgSi 0.5 matt anodised Ø100x40mm IP 40



ER106059 SYNERGY R100 Aluminium AIMgSi 0.5 matt anodised Ø100x70mm IP 40



ER109059 SYNERGY R100 Aluminium AIMgSi 0.5 matt anodised Ø100x100mm IP 40



ER123059 SYNERGY R120 Aluminium AIMgSi 0.5 matt anodised Ø120x40mm IP 40



ER126059 SYNERGY R120 Aluminium AIMgSi 0.5 matt anodised Ø120x70mm IP 40



ER129059 SYNERGY R120 Aluminium AIMgSi 0.5 matt anodised Ø120x100mm IP 40





ER143059 SYNERGY R140 Aluminium AIMgSi 0.5 matt anodised Ø140x40mm IP 40



ER146059 SYNERGY R140 Aluminium AlMgSi 0.5 matt anodised ø140x70mm IP 40



ER149059 SYNERGY R140 Aluminium AlMgSi 0.5 matt anodised Ø140x100mm IP 40



ES103059 SYNERGY S100 Aluminium AIMgSi 0.5 matt anodised 100x100x40mm IP 40



ES106059 SYNERGY S100 Aluminium AIMgSi 0.5 matt anodised 100x100x70mm IP 40



ES109059 SYNERGY S100 Aluminium AIMgSi 0.5 matt anodised 100x100x100mm IP 40



ES123059 SYNERGY S120 Aluminium AlMgSi 0.5 matt anodised 120x120x40mm IP 40



ES126059 SYNERGY S120 Aluminium AIMgSi 0.5 matt anodised 120x120x70mm IP 40



ES129059 SYNERGY S120 Aluminium AlMgSi 0.5 matt anodised 120x120x100mm IP 40



ES143059 SYNERGY S140 Aluminium AlMgSi 0.5 matt anodised 140x140x40mm IP 40



ES146059 SYNERGY S140 Aluminium AlMgSi 0.5 matt anodised 140x140x70mm IP 40



ES149059 SYNERGY S140 Aluminium AIMgSi 0.5 matt anodised 140x140x100mm IP 40

### Accessory "battery"



A9193033 Polarity reversal protection device, positive terminal AA ABS (UL 94 HB) off-white RAL 9002



A9193034
Polarity reversal protection
device, positive terminal AAA
ABS (UL 94 HB)
off-white RAL 9002



A9193035 Battery clip, AA Steel nickel-plated



A9193036 Battery clip, AAA Steel nickel-plated





A9193037 Button cell holder, Ø 20 mm



A9193038 Button cell holder, Ø 23 mm



A9193039 Button cell holder, Ø 12 mm



A9193040 Button cell holder, Ø 16 mm



EZ040609 Battery compartment, 3 x AA ASA+PC (UL 94 V-0) black RAL 9005



EZ050609 Battery compartment, 4 x AA ASA+PC (UL 94 V-0) black RAL 9005



EZ060609 Battery compartment, 2 x AA ASA+PC (UL 94 V-0) black RAL 9005

#### Accessory "wall/holder"



EZ030109 Wall suspension element ASA+PC (UL 94 V-0) black RAL 9005

#### Accessory "screws"



A0305031 Self-tapping screws 2.5 x 6 mm (PZ1)



EZ031209 Extender kit ASA+PC (UL 94 V-0) black RAL 9005

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