Polyester Enclosures – Series CP

BERNSTEIN Series CP and CPS polyester enclosures are produced from highgrade glass fibre-reinforced polyester. Thanks to their reduced surface resistance (Ro < 109 Ohm), the black polyester enclosures meet the requirements for Ex applications. Polyester enclosures are therefore particularly suitable for accepting and encapsulating electrical and electronic components as well as control components in harsh environments or potentially explosive atmospheres (see Page 14). All enclosures achieve protection class IP66 in accordance with IEC529 (optionally IP67).

Corresponding to their size, BERNSTEIN polyester enclosures feature M4 or M6 mounting elements in the enclosure body. These galvanised steel bushes are embedded in a flange on the narrow sides of the base and accept mounting plates, mounting rails, pc boards etc.

The captive stainless steel cover screws are retained by a self-latching element integrated in the cover. The threaded bushes for mounting the cover are also made from stainless steel. The protection class (on the standard enclosure) is ensured by a factory-fitted seal. The polyester enclosures are available as standard in grey (RAL 7000, squirrel grey) or black (RAL 9005, jet black) material.



Technical data

Material

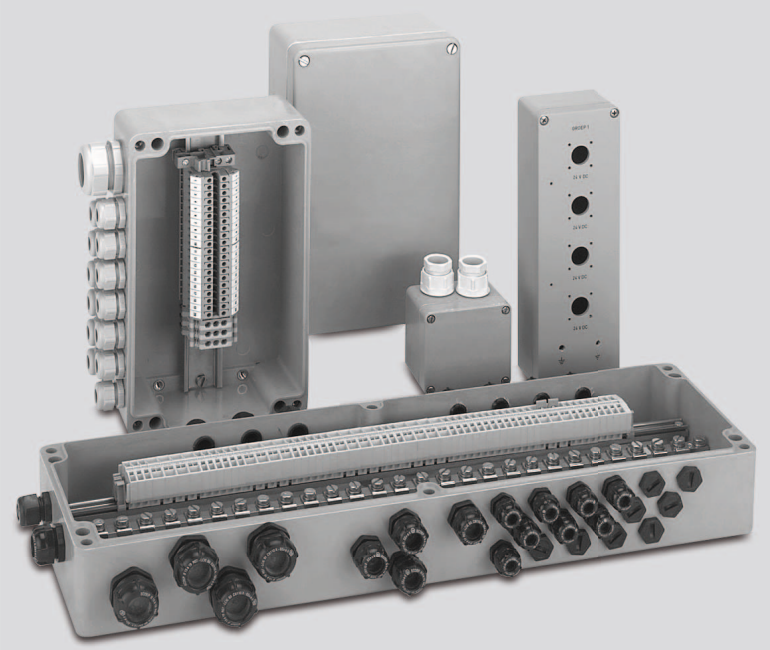
Glass fibre-reinforced polyester
in grey or black

Seal

Neoprene (CR) round cord (siliconized)

alternatively:

Neoprene (CR) round cord (silicone-free)
Silicone round cord, EPDM round cord



Cover screws

Stainless steel, captive, cross recessed head

alternatively:

Socket head cap screws, stainless steel, captive

Colour

RAL 7000 (squirrel grey)

bzw. RAL 9005 (jet black)

Alternatively for large quantities:
Other colours (coating or dyeing) available on request

Temperature range of CP enclosures

-100°C to +165°C

Temperature range of seals

-30°C to +80°C (Neoprene seal)

alternatively:

-60°C to +130°C (silicone seal) or
-35°C to +100°C (EPDM seal)

Protection class

IP66

IP67 on request

Approbations

Germanischer Lloyd

UL