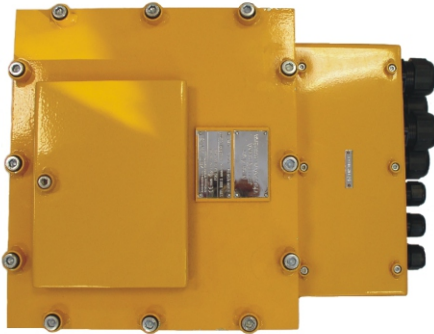




SMA-01 – Small Automation System Case



Certificate: ATEX



Use:

SMA-01 is a device for a simple automation and substitution of complicated relay connections and for the control of power devices. It is intended to an environment with an explosion hazard in gassy mines.

Description:

Electrical and electronic devices are situated in a firm enclosure, which also houses converters at an intrinsically safe level. The terminal block space is protected. The case is supplied in several versions with varied equipment depending on intended application. The firm enclosure can be fitted with a cover with a sight glass or without it.

A programmable automatic system on which required functions and activities are implemented forms a base of the electrical equipment. This is also equipped e.g. with intrinsically safe inputs, outputs, power outputs and communication converters. Thanks to the case fitting with an automatic system it is possible to achieve a different device function without changing the electrical connection. The automatic systems are equipped in the production with software according to the version, intended use or software according to a customer's requirement. It is also possible that a user implements its own software.

Technical Parameters:

Model	I M2 (M1) Ex d e ia I
Supply voltage	230 V AC
Auxiliary voltage	Maximum of 230 V AC
Input power	41 W
Connected conductor cross-section	Maximum of 4 mm ²
Ambient temperature	0°C - +40°C
Relative humidity	95 % w/o condensation
Protection	IP 54
Dimensions	380 x 510 mm including bushings, Height 210 mm
Weight	21 kg

Intrinsically safe parameters:

KD converter:

U _i	100 V
I _i	0.5 A
P _i	1.3 W
C _i	500 pF

NAMUR KN converter:

U _o	11.5 V
I _o	51.2 mA
C _o	11.2 µF
L _o	55 mH

The terminal block space contains 38 screw-less terminals with protection for connecting conductors up to the cross-section of 4 mm². The number of bushings is limited according to a version and can exceed the number of 10. If intrinsically safe signals are also led out, a partition is inserted between terminals which ensures the surface and air distance of 50 mm.

The catalogue has only those selected important parameters for your final decision. For project designs always ask for the user's guide for this product and any engineering consultation about possible uses.