

Installation Guide

1 General Information

Switchgear «UK-Ex» (hereinafter, UK-Ex) refers to explosion-proof electric equipment with the type of explosion proofing «intrinsically safe circuit» level «ia» and is intended for providing of cross-plugging of intrinsically-safe circuits in hazardous areas.

2 Principal Technical Characteristics

- 2.1 Explosion-proof labeling of UK-Ex 0ExiallCT6 X.
- 2.2 Electric intrinsically safe circuits of UK-Ex have the following valid parameters:
 - maximum input voltage (U_i) – 16 V at maximum input current (I_i) is not more than 180 mA;
 - maximum input voltage (U_i) – 30 V at maximum input current (I_i) is not more than 65 mA;
 - maximum internal capacitance (C_i) – 1000 pF;
 - maximum internal inductance (L_i) – 0.01 mH.
- 2.4 UK-Ex has six pairs of screwed leading-in sockets.
- 2.5 The design of UK-Ex ensures IP rating IP65.
- 2.6 UK-Ex dimensions, maximum – 155 x 87 x 43 mm.
- 2.7 Weight, maximum – 0.2 kg.
- 2.8 UK-Ex ensures safe operation under the following conditions:
 - ambient temperature range from minus 50 to +50 °C;
 - relative air humidity up to 93 % at a temperature +40 °C.

3 Scope of Delivery

Each UK-Ex unit package contains items listed in Table 1.

Table 1

Name	QNT
Switchgear «UK-Ex»	1 pc.
Screw 3-3x30.016	2 pcs.
Wall plug NAT 5x25 SORMAT	2 pcs.
Switchgear «UK-Ex». Installation Guide.	1 copy

4 Design of UK-Ex

- 4.1 UK-Ex design is shown in Figure 1.
 - 4.2 UK-Ex design is fulfilled in the form of divisible plastic case with fastened terminal board and 4 cable entries.
 - 4.3 UK-Ex comprises the base and the cover tightened by sealing gasket. The terminal board with 6 pair terminals is fastened to the base.
 - 4.4 For connection to terminals it is possible to use the cable with core cross-section area within 0.5 ... 1.5 mm² range.
 - 4.5 UK-Ex comprises 4 cable entries: «MG12» type – 2 units and «MG16» – 2 units.
- To provide the tightness of the construction design, it is recommended to apply relevant cables «MG12» with overall diameter 4 ... 7 mm, and «MG16» with overall diameter 6 ... 10 mm.

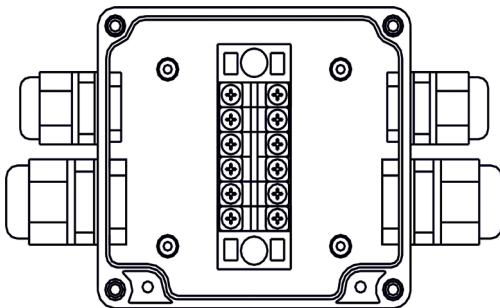


Figure 1 –UK-Ex layout

5 Transportation and Storage

5.1 UK-Ex in original transportation package may be transported by any means of transportation in closed vehicles (railway wagons, closed motor vehicles, sealed and heated airplane compartments, vessel holds, etc.) over all distances.

When transporting UK-Ex, the rules and regulations applicable to various means of transportation must be adhered.

5.2 Storage premises must not contain any current-conducting dust, acid and alkali fumes, as well as corrosive gases or those destroying insulation.

5.4 Maximum shelf life of UK-Ex in transportation package is three years; whereupon the transportation package must be dry and clean.

6 Manufacturer's Guarantees

6.1 The manufacturer guarantees conformity of UK-Ex to the requirements of specifications provided the transportation, storage, installation and operation conditions are observed.

6.2 The guaranteed shelf life of UK-Ex is 63 months since the date of manufacture. The guaranteed useful life is 60 months since the day of putting into operation within the guaranteed shelf life.

The detector UK-Ex that is found non-conforming to the requirements of specifications during the guarantee period under the observance of exploitation and installation rules shall be repaired by the manufacturer.

7 Claims

If switchgear UK-Ex is found non-conforming to the requirements of specifications, as well as in case of it's failure during the guarantee period, the UK-Ex must be returned to manufacturer.

8 Packing Certificate

Switchgear «UK-Ex» has been manufactured in compliance with the active technical documentation and classified as fit for operation and packed by «RIELTA» JSC.

Packing date _____
month, year