



APPLICATION

Explosion protected junction boxes RK 01/... are intended for carrying and distributing electrical power in places with an explosive gas and dust atmosphere. The junction box is designed for use in the industrial areas and facilities, indoor and outdoor spaces.


The junction box RK 01/... are fitted with pillar (mantle) terminals or terminal blocks for cable up to 6mm². For cable with armored cable there are junction boxes available with internal metal plate and external earthing terminal.

CONSTRUCTION

Enclosure: PA glass fiber reinforced polyamide, color - black

Cover: PA glass fiber reinforced polyamide with integrated thermoplastic elastomer gasket, closes with four M5 stainless steel screws.

TECHNICAL DATA

Certificate:	CESI 10 ATEX 040	
Marking:	CE 0722	
Apparatus category:	II 2G II 2D	
Marking of explosion protection:	 Ex e II T6 Ex ia/ib IIC T6 Ex tD A21 T80°C	
Ambient temperature:	-20°C ≤ Ta ≤ +40°C or +50°C -40°C ≤ Ta ≤ +50°C, with specially designed cable glands -40°C ≤ Ta ≤ +70°C, for Ex i, with specially designed glands	
Degree of protection:	IP 66 category 1	
Resistance to shock:	IK 08	
Protection class:	I (protective earthing)	
Rated voltage:	630 V	
Maximum voltage for Ex i:	60 V	
Nominal cross-section:	4 mm ² RK01/514, RK01/514 Exi, RK01/544, RK01/744 6 mm ² RK01/516	
Terminal rated current:	RK01/744, RK01/544 RK01/544E	Ta ≤ 40°C 22 A Ta ≤ 50°C 18 A
	RK01/514	Ta ≤ 40°C 20 A Ta ≤ 50°C 16 A
	RK01/516	Ta ≤ 40°C 25 A Ta ≤ 50°C 20 A
Cable current load capacity:	1.5 mm ² - 16 A 2.5 mm ² - 20 A 4 mm ² - 25 A 6 mm ² - 32 A	
Cable entries, cable glands and screw plugs:	Cable entries in accordance with EN 60423 Cable glands in accordance with EN 50262 6 x M25 for cable φ6-15 mm (φ13-19 mm available on request) 6 x M32 for cable φ12-21 mm (φ17-25 mm available on request) 4 x M25 for cable φ6-15 mm (φ13-19 mm available on request) 4 x M32 for cable φ12-21 mm (φ17-25 mm available on request)	
External earthing terminal:	2x6 mm ² max., cable lug 6-6, DIN 46234 (on type RK01/544-E)	
Weight:	0,55 kg 0,80 kg with internal metal plate	
Packing:	The packing contains: 14 pcs 435x260x220 mm	

MOUNTING

With two screws through the housing holes φ6 mm at the peaks the rectangle:
100 x 75 mm

RK



MODEL CODE

TYPE	DESIGN	CABLE GLANDS	NUMBER OF TERMINALS - TERMINAL CROSS SECTION (nominal)	MAX. CAPACITY PER TERMINAL
RK 01/514		cable glands 4xM25 for cable φ6-15mm, 2xM25 screw plug	5 - 1 x 4mm ² (L1, L2, L3, N, PE)	1x0,5...4mm ² 2x0,5...2,5mm ²
RK01/514 Ex i			5 - 1 x 4mm ² (Blue 1-5)	
RK 01/516		cable glands 6xM25 for cable φ6-15mm	5 - 1 x 6mm ² (L1, L2, L3, N, PE)	1x1,5...6mm ² 2x1,5...4mm ²
RK 01/544			5 - 4 x 4mm ²	4x4mm ² 6x2,5mm ² 1x4mm ² + 2x2,5mm ² + +3x1,5mm ² 1x4mm ² + 5x1,5mm ² 2x4mm ² + 3x2,5mm ²
RK 01/744		7 - 4 x 4mm ²		
RK 01/544-E		2 x M32 cable glands for armoured cable Ø _v 23-32mm 4 x M25 cable glands for armoured cable Ø _v 17-23mm	5 - 4x 6mm ²	

Other configuration available on request

DIMENSIONS

