RK100-BS

LINEAR SMOKE DETECTOR 120 M TX+RX



The RK100-BS is a beam smoke detector with barrier (separate TX and RX), with a maximum optical range of 120 m (minimum useful distance 25 m). Capable of detecting white or black smoke, fumes or mists. A single detector can cover an area of up to 1600 sq. m (standards EN54-14 and UNI 9795 ed. 2005) and is the ideal solution for installation in supermarkets, industrial storage facilities, warehouses, theatres/cinemas, shops, hotels, control rooms and, in situations where the optical window for passage of the infrared beam between Transmitter and Receiver is very small (goods storage warehouses with a lot of shelving), an opening of around 10 cm is enough to guarantee the correct beam intensity. Equipped with 1 Alarm relay and 1 fault relay, 0-5 V analogue output for viewing the signal level at a distance and automatic drift compensation circuit. Integrated laser module for quick and precise optical alignment, even at greater distances. Simple installation and easy infrequent maintenance. Power supply 11/30 Vdc. Built-in LED for status indication. IP65 protection rating with polycarbonate housing. VDS and CPR certified in accordance with standard EN54-12.

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MAIN FEATURES	
Type of Detection	Obscuration
Built-in laser pointer	Yes
LED indicators	Red (alarm status), Blue (compensation limit, fault, interrupted beam or normal operation)
Optical range (m)	25 ÷ 120
Ray type	Infrared with digital coding
Protected area dimensions	1600 m2 (standards EN54-14)
Drift compensation	Yes
Polarity inversion protection	Yes
Alarm level adjustment	Yes, 4-position selector
EN regulations	EN54-12

HARDWARE SPECIFICATIONS	
IP protection rating	IP65
Type of finishing materials	Polycarbonate
Product weight (g)	900
Operating temperature (°C)	-10 ÷ 55
Operating humidity (RH max @40°C) (%)	0 ÷ 96
Height (mm)	247
Width (mm)	146
Depth (mm)	114
Max. angular misalignment of the optical part (±, °) (°)	0.2
Cross-section for terminals (mm)	0.2 ÷ 1.5

ELECTRICAL SPECIFICATIONS	
Power supply	12÷24 VDC (-10%÷+15%)
RX receiver consumption in standby (mA)	18.6

The technical specifications are subject to change without prior notice.

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ELECTRICAL SPECIFICATIONS	
RX receiver consumption (mA)	34 with alarm relay active; 50 alarm and fault relay active
TX transmitter consumption (mA)	9.5
Number of alarm relay outputs	1, Oscuration
Number of fault relay outputs (n°)	1
Alarm relay trigger delay (secs)	10
Fault relay trigger delay (secs)	5
Capacity of the relay contact	1A@24VDC
Analogue output	0-5 V for signal level measurement

GENERAL DATA	
Number of alarm relay outputs (n°)	1

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