# **BSR-6157**

Analogue addressable optical smoke and rate-of-rise heat detector with integrated isolator

CE 1293

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EN 54-5:2017.

EN 54-7:2018, EN 54-17:2005

DoP: 921615700 59 001







### WARRANTY

Olympia Electronics guarantees the quality, condition and operation of the goods. The period of warranty is specified in the official catalogue of Olympia Electronics and also in the technical leaflet, which accompanies each product. This warranty ceases to exist if the buyer does not follow the technical instructions included in official documents given by Olympia Electronics or if the buyer modifies the goods provided or has any repairs or re-setting done by a third party, unless Olympia Electronics has fully agreed to them in writing. Products that have been damaged can be returned to the premises of our company for repair or replacement, as long as the warranty period is valid.

Olympia Electronics reserves the right to repair or to replace the returned goods and to or not charge the buyer depending on the reason of defection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

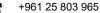




SSS Building, Lebanon















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## Analogue addressable optical smoke and rate-of-rise heat detector with integrated isolator



TECHNICAL CHARACTERISTICS	
COMMUNICATION PROTOCOL	Olympia A Protocol
MAIN VOLTAGE	12-30V DC
STANDBY CONSUMPTION	195μΑ
ALARM CONSUMPTION	2.5mA (with activated LED)
SMOKE CONCENTRATION SENSITIVITY	Adjustable from 0.107 to 0.300 in 0.010 dB/m steps
TEMPERATURE SENSITIVITY	Adjustable from 57 to 90 in 1.5°C steps
INDICATORS	Alarm LED
OUTPUT	Remote LED driver
CLASS	A1R/A1S
MAXIMUM LOOP CURRENT (Ic max, -L in/out)	1A
MAXIMUM SWITCH CURRENT (Is max, -L in/out)	5A
MAXIMUM SERIES RESISTANCE (Zc max, -L in-out)	300mΩ
MAXIMUM LEAKAGE CURRENT IN ISOLATION MODE (IL max, -L in/out)	25mA pulses (6ms duration every 2sec)
ISOLATION VOLTAGE (Vso min-max)	8.8 - 11
RECONNECT VOLTAGE (Vsc min-max)	10.2 - 13
DEGREES OF COVER PROTECTION	IP42
PRODUCED IN ACCORDANCE WITH	EN 54-5,EN 54-7, EN 54-17
OPERATING TEMPERATURE RANGE	-40 to 70 °C
RELATIVE HUMIDITY	Up to 95%
CONSTRUCTION MATERIALS	ABS/PC
EXTERNAL DIMENSIONS	103 (d) x 55 (h) mm
TYPICAL WEIGHT	160 gr.
GUARANTEE	2 years

#### Thank you for your trust in our products Olympia Electronics - European manufacturer

#### **GENERAL**

The user have to read carefully the following instructions, in order to be properly informed and keep them for future use.

The BSR-6157 is an analogue addressable smoke detector which integrates functions of optical smoke and heat detection and it can work with any fire panel supports Olympia A Protocol. It can be adjusted to detect multiple levels of smoke and heat offering flexibility and rich functionality. Also, it integrates a short circuit isolation circuit which is automatically activated and disconnects the defective node from the remaining loop, allowing it to be located by the panel.

The detector sends to the main panel an analogue value which depends on the concentration of smoke and heat. The value is 100 in concentration of 0.107dB/m (small amount of smoke) or a temperature of 57°C and increases proportionally to 120 in concentration of 0.300dB/m or a temperature of 90°C. When a sudden increase in temperature is detected the detector sends the value of 121.

By default the panel is set to sound an alarm when the concentration of smoke is 0.091dB/m or the temperature is 57°C. The user can change this setting from the panel for each detector and define any level of smoke concentration or temperature between the lower and the upper limits, specifying the sensitivity of the system depending on the requirements of each site. Also, the user can select A1R or A1S working mode through the panel.

They are composed by two parts. A plastic base which is placed on the ceiling and the main body of the detector which fits on the plastic base with a simple rotation to the right. The detectors have a 360° visible led and a remote led driver which are light up constantly in case of detection of fire, till cancelled from the panel. Also, they are staying lit even if the sirens are silenced from the panel, so the detector which