

BSR-6155
Analogue addressable optical smoke detector with integrated isolator



EN 54-7,
EN 54-17
DoP: 921615500_59_001

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**EGINIO
PIERIAS
60300
GREECE**



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.



for a safer world

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TECHNICAL CHARACTERISTICS

COMMUNICATION PROTOCOL	Olympia A Protocol
MAIN VOLTAGE	12-30V DC
STANDBY CONSUMPTION	195µA
ALARM CONSUMPTION	2.5mA (with activated LED)
SMOKE CONCENTRATION SENSITIVITY	Adjustable from 0.107 to 0.300 in 0.010 dB/m steps
INDICATORS	Alarm LED
OUTPUT	Remote LED driver
MAXIMUM LOOP CURRENT (I _c max, -L in/out)	1A
MAXIMUM SWITCH CURRENT (I _s max, -L in/out)	5A
MAXIMUM SERIES RESISTANCE (Z _c max, -L in-out)	300mΩ
MAXIMUM LEAKAGE CURRENT IN ISOLATION MODE (I _L max, -L in/out)	25mA pulses (6ms duration every 2sec)
ISOLATION VOLTAGE (V _{so} min-max)	8.8 - 11
RECONNECT VOLTAGE (V _{sc} min-max)	10.2 - 13
DEGREES OF COVER PROTECTION	IP42
PRODUCED IN ACCORDANCE WITH	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 48 (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-6155 is an analogue addressable smoke detector which integrates the function of optical smoke detection and it can work with any fire panel supports Olympia A Protocol. It can be adjusted to detect multiple levels of smoke 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. The value is 100 in concentration of 0.107dB/m (small amount of smoke) and increases proportionally to 120 in concentration of 0.300dB/m.

By default the panel is set to sound an alarm when the concentration of smoke is 0.107dB/m. The user can change this setting from the panel for each detector and define any level of smoke concentration between the lower and the upper limits, specifying the sensitivity of the system depending on the requirements of each site.

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 detected the alarm is visible. They are turned off only when a reset command is given from the panel. The indicator led blinks every 10 sec indicating the connection status with the main panel.