

# Technical Specifications: BS-60

## Mechanical data:

Dimensions:	H=310 mm, W=446 mm, D=141 mm (mounted in cabinet UEA-22/1)
Weight:	11,8 kg
Material:	Steel cabinet with "Lexan" front door. Colour: Grey, Ral 9002
Protection:	IP 43



## Electrical data:

Power supply:	230 V AC +10/-15 %. Frequency: 44 - 440 Hz.
Batteries:	2 x 12 V = 24 V, 12 Ah (Not included)
Current consumption:	Normal condition: From 65 to 130 mA at 24 V DC depending on detector load (max. 99 pcs.). Alarm condition: Max. 3 A. (BS-60 with 99 detectors and no outputs connected: 500 mA.)
Inputs:	* Detector loop: 14 V DC +/- 0,2 V. * General alarm (ext. control of sounders), not galvanically isolated.
Outputs:	* Sounders (AK): 4 circuits, max. load 0,63 A at 24 V DC each circuit. * Remote alarm signal (BMA): max. load 1 A / 24 V DC, (pot. free relay contact). * Remote fault signal (BMF): max. load 100 mA at 24 V DC. (NPN transistor with open collector.) * Control output 1: 24 V DC, max. load 0,9 A. * Control output 2: max. load 1 A at 24 V DC (pot. free relay cont.). * Voltage output: 24 V DC, max. load 1 A. * Zone control outputs: 16 pcs. (zones), each max. load 100 mA (NPN- transistor with open collector.). * Data output: Current loop, 20 mA galvanically isolated. * Special power output (SSK) for BK-50: max. load 0,1 A at 24 V DC.

## Recommended cables:

Connection of:	Open installation		Concealed installation		Marine installation	
	Core (mm <sup>2</sup> )	Max. cable length (m)	Core (mm <sup>2</sup> )	Max. cable length (m)	Core (mm <sup>2</sup> )	Max. cable length (m)
Mains 230 V AC	2 x 1,5	-	1,5	-	2 x 1,5	-
Alarm Sounders	2 x 1,5	-	1,5	-	2 x 1,5	-
Detector loop *)	2 x 1 2 x 1,5 2 x 2,5	680 1250 2150	2 x 0,75	650	2 x 0,5	430
Interconnection cable	1,5 Multicore	-	1,5 Multicore	-	Multicore	-
Data comm.	0,5**) (Current loop)	220mA 1000m	RS232 10m	4 wires + screen. Earthed in both ends. Max. cable resistance 340Ω. Max. cable capacitance 220nF/1200baud.		

\*)= Assuming max. total loop resistance, 30 Ohms. \*\*)= Data communication cable only.  
NB! The requirements of national Standards, local authorities and classification societies must be considered

# Fire Alarm Control Panel

BS-60



## Applications

Fire alarm control panel type BS-60 is an analogue addressable panel intended for smaller and medium size installations. Up to 99 analogue addressable fire detectors and/or manual callpoints can be connected. Each detector device is monitored by the panel.

## Features

- \* The 99 fire detectors may be grouped in up to 16 fire zones.
- \* The panel contains a 2x40 character text display which indicates the location of the detector(s) in alarm or fault condition.
- \* All detectors are continually monitored.
- \* By operating the control panel, a single detector, or a group of detectors (zone) can be isolated temporarily while necessary maintenance work is carried out. The remaining detectors are still active.
- \* A single detector, or a group of detectors (zone) can be isolated or restored locally using a fire zone operating unit type BK-50. When a fire zone is isolated, manual callpoints are still active.

- \* Isolated detectors will be restored automatically after a preset time.
- \* The control panel provides essential control outputs.
- \* "Pre-warning" highlights the need to change a detector contaminated by dust.
- \* Designed for built-in stand-by accumulators (24 V 12 Ah).
- \* BS-60 meets BS5839 pts 1 & 4
- \* The BS-60 control panel can be connected as a slave unit to BS-100 DYFI which will provide BS-60 with all the benefits of the DYFI (DYnamic Filter) process.

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# BS-60 System configuration

