

CAST EN54-13 Loop Resistance Tester

Part No. **CA742**



Overview

- Performs enhanced loop integrity checks on a CAST ZFP addressable fire alarm loop in accordance with the requirements of EN54-13:2005 (the European standard for the compatibility and connectivity of components within a fire detection and alarm system).
- ANPI certified to EN54-18: 2005.
- EN54-13 & NTN 179L: 2021 certified by Belgian certification body BOSEC.
- Facilitates the flagging of creeping loop faults.
- Designed to be fitted at 'End B' of a ZFP CAST addressable loop so it can measure the series resistance of the field loop including device resistances.
- The device's resistance trigger setting is user configurable via an on-board DIP switch from 5-75 ohm in 5 ohm steps.
- When the resistance trigger setting is breached, the module will send a loop resistance fault message to the CIE.
- Requires one CAST address and is designed to sit on standard single gang UK 25mm back box (must be fitted outside of the ZFP's enclosure).
- Download instructions for full details.



More Information

'CAST' is the world's most-advanced 'distributed intelligence' fire alarm system protocol. Conceived, designed and realised by C-TEC, it involved the creation of a powerful proprietary communication protocol (C-TEC Addressable System Technology, CAST) and multiple control panels & field devices. Its key features include:-

- 255 devices per loop.
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Autonomous decision-making for faster response times. • Multiple type codes. • 40V loop drive voltage. • Two 'soft' addressing options – automatic via the panel or manual via a powerful handheld programmer. • Powerful multi-level addressing facilitates easy device addition and swapped device identification. • Multiple functionality at a single address (integrated devices) via our CAST-PRO devices. • Volumes, tones & detector modes can be changed at compatible panels. • High-speed data transmission and robust data transfer. • Intrinsically EN54-13 compliant. • Geographical location of short and open circuit faults (a short circuit isolator is included as standard in every CAST field device). • Replace device function. • Future seamless integration with other CAST life safety systems reducing energy, servicing, installation and repair costs. • Designed and manufactured in the UK.

Technical Specifications

Approvals/certifications	ANPI certified to EN54-18, Certified to EN54-13 & NTN 179-L:2021 by BOSEC
Compatibility	Compatible with C-TEC's ZFP CAST Addressable Fire Alarm Systems
Application/operation	Performs enhanced loop integrity checks on a ZFP CAST loop in accordance with the requirements of EN 54-13: 2005.
Supply/operating voltage	22 to 40V DC.
Quiescent current	<2.mA
Activation current	7.3mA (Fault LED lit).
Indicators	Active (Steady Green): unit activated; Polling (Flashing Green): Comms check with the CIE; Fault (Yellow): Over resistance fault detected.
Product dimensions (mm)	87 W x 87 H x 24 D mm. Mounts on a UK 25mm single gang back box.
Construction & finish	ABS Polycarbonate plate with a 200 micron two-tone grey velvet polyester label with red and white detailing.
IP Rating	IP40 when correctly installed.
Weight	80g
Operating conditions/temperature	-10°C to +55°C.