

Title (en)
ELECTRONIC UNIT FOR MONITORING AND CONTROLLING OF FIRE SENSORS OPERATING AT DIFFERENT VOLTAGE LEVELS AND FIRE DETECTION SYSTEM

Title (de)
ELEKTRONISCHE EINHEIT ZUR ÜBERWACHUNG UND STEUERUNG VON BRANDMELDERN MIT BETRIEB AUF VERSCHIEDENEN SPANNUNGSSTUFEN UND BRANDDETEKTIONSSYSTEM

Title (fr)
UNITÉ ÉLECTRONIQUE PERMETTANT DE SURVEILLER ET DE COMMANDER DES DÉTECTEURS D'INCENDIE FONCTIONNANT À DIFFÉRENTS NIVEAUX DE TENSION ET SYSTÈME DE DÉTECTION D'INCENDIE

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EP 3361461 A1 20180815 (EN)

Application
EP 17425016 A 20170213

Priority
EP 17425016 A 20170213

Abstract (en)
The invention relates to an electronic unit (10) for monitoring and controlling one or more fire sensors (SEN) of a fire detection system (100). Such unit comprising: - a processing stage (1); - a managing stage (2) of the sensors which can be connected and activated to generate digital cyclical querying signals (S1, S2) to be sent to the sensors to verify their operative state; - an electrical power supplying stage (3) to generate direct current electrical potentials to be supplied to the managing stage of the sensors starting from a predetermined reference power supply potential (Vcc). In such electronic unit, the electrical power supplying stage comprises a first electronic circuit (30, 40, 50) to generate: - a first potential (V1) higher than the reference potential; - a second potential (V2) equal to the reference potential; - a third potential (V3) lower than the reference potential. The managing stage of the sensors comprises a second electronic circuit (60, 61, 65, 66) to generate: a first digital cyclical querying signal which assumes a high level equal to the second potential and a low level equal to the third potential; a second digital cyclical querying signal adapted to assume a high level equal to the first potential and a low level equal to the second potential. Such first and second digital cyclical querying signals are associated with different communication protocols to be made available to the fire sensors of different type of the fire detection system.

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CPC (source: EP)
G08B 17/00 (2013.01); **G08B 25/045** (2013.01); **G08B 25/14** (2013.01)

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• [A] EP 2996301 A1 20160316 - UTC FIRE & SECURITY EMEA BVBA [BE]
• [A] WO 2015159511 A1 20151022 - PANASONIC IP MAN CO LTD [JP] & EP 3133569 A1 20170222 - PANASONIC IP MAN CO LTD [JP]
• [XI] ACTIVE REPEATER: "ZXe INTELLIGENT MULTI PROTOCOL FIRE ALARM CONTROL PANEL PRODUCT Specification FEATURES", 27 November 2002 (2002-11-27), XP055398394, Retrieved from the Internet <URL:http://www.intertrade.ps/userfiles/file/zxs2ss.pdf> [retrieved on 20170811]

Cited by
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