

Title (en)

Secure switching device and modular error-proof control system

Title (de)

Sichere Schalteinrichtung und modulares fehlersicheres Steuerungssystem

Title (fr)

Dispositif de couplage sécurisé et système de commande modulaire protégé contre les erreurs

Publication

EP 2239752 B1 20130306 (DE)

Application

EP 10158367 A 20100330

Priority

DE 102009018140 A 20090408

Abstract (en)

[origin: EP2239752A1] The device (10) has a switching element e.g. relay to perform switching process of electrical load using control signal generated by a control system (20). A detection apparatus detects the switching process amount. The detection apparatus includes a memory apparatus (28) for permanent storage of switching process amount. The memory apparatus has an associated section to identify the faults in the memory apparatus. An independent claim is included for modular failsafe control system for switching ON/OFF states of electrical load.

IPC 8 full level

H01H 47/00 (2006.01)

CPC (source: EP US)

H01H 47/002 (2013.01 - EP US); **H01H 3/001** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

EP 2239752 A1 20101013; EP 2239752 B1 20130306; EP 2239752 B2 20220330; DE 102009018140 A1 20101021; HK 1145369 A1 20110415; US 2010259862 A1 20101014; US 8274771 B2 20120925

DOCDB simple family (application)

EP 10158367 A 20100330; DE 102009018140 A 20090408; HK 10111765 A 20101216; US 75325410 A 20100402