Title (en)

Limit signaller and method for operating same

Title (de)

Grenzsignalgeber und Verfahren zum Betreiben eines Grenzsignalgebers

Title (fr)

Capteur de signal limite et procédé d'emploi d'un capteur de signal limite

Publication

EP 2226515 A3 20130123 (DE)

Application

EP 10002130 A 20100302

Priority

DE 102009011242 A 20090302

Abstract (en)

[origin: EP2226515A2] The limit signal indicator (1) has position sensor (15), Namur-sensors (33,35,65,63) and microprocessor (41). At least any of Namur-sensors is connected to switch amplifier for signal transmission so that in case of malfunctioning of signal transmission, the switch amplifier generates emergency signal above maximum limit value or below lower limit value. The microprocessor executes an emergency procedure according to which emergency signal is generated upon detecting specific operational malfunctioning of at least any of limit signal indicator, positioning valve (11) and positioning drive (5). An independent claim is included for an operating method of limit signal indicator.

IPC 8 full level

F15B 15/28 (2006.01)

CPC (source: EP US)

F15B 15/2807 (2013.01 - EP US)

Citation (search report)

- [I] DE 29917651 U1 20001109 - SIEMENS AG [DE]
- [A] DE 102005062259 A1 20070705 - BINDZUS MATHIAS [DE]
- [AD] DE 102006049651 A1 20080424 - SAMSON AG [DE]
- [AD] EP 1730611 B1 20081105 - FISHER CONTROLS INT [US]
- [A] RAAB H: "AUSFALLINFORMATION BEI DIGITALEN MESSUMFORMERN MIT ANALOGEN AUSGANGSSIGNAL: VEREINHEITLICHUNG DES SIGNALPEGELS. ÖFAILURE INFORMATION FOR DIGITAL FIELD INSTRUMENTS WITH ANALOGUE OUTPUT: STANDARDIZATION OF THE SIGNAL LEVEL", AUTOMATISIERUNGSTECHNISCHE PRAXIS - ATP, OLDENBOURG INDUSTRIEVERLAG, MUNCHEN, DE, vol. 36, no. 7, 1 July 1994 (1994-07-01), pages 30 - 32,34/35, XP000454543, ISSN: 0178-2320

Cited by

US10379145B2; WO2015010883A1

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

Designated extension state (EPC)

AL BA ME RS

DOCDB simple family (publication)

EP 2226515 A2 20100908; **EP 2226515 A3 20130123**; **EP 2226515 B1 20150923**; DE 102009011242 A1 20100916; DE 102009011242 B4 20130529; US 2010219961 A1 20100902; US 8576086 B2 20131105

DOCDB simple family (application)

EP 10002130 A 20100302; DE 102009011242 A 20090302; US 71605310 A 20100302