Title (en)

Fluid pressure responsive electric switch and method for assembling same

Title (de)

Auf Fluid-Druck ansprechender Schalter und Verfahren zu deren Zusammenbau

Title (fr)

Interrupteur actionné par la pression d'un fluid et méthode d'assemblage

Publication

EP 0764960 A2 19970326 (EN)

Application

EP 96306625 A 19960912

Priority

US 399395 P 19950919

Abstract (en)

A fluid pressure responsive electric switch (10) is shown having an elongated base (12) in which first and second terminals (34, 48) are mounted by dropping them into respective slots (26, 28). The terminals are provided with tabs (38, 52) to engage with a platform (30) of the base to limit motion in one direction and are in turn engaged by a guide member (62) to prevent motion in an opposite direction. The guide member (62) has a cylindrical force transfer portion (86) aligned with the weld portion (104) of a sensor assembly (92) to transfer force without adversely affecting the calibration of the sensor assembly. Electrical leads (118, 120) have connectors (126, 128) attached to an end thereof along with cylindrical gaskets (134) which form an interference fit in bores (22, 20) of the base to provide an environmental seal at the same time electrical connection is made to the terminals. In a modified embodiment a special thermal isolation fitting (140) is shown particularly adapted for use in sealed refrigeration applications. <IMAGE>

IPC 1-7

H01H 35/34; H01H 1/58; H01H 9/04

IPC 8 full level

H01H 11/00 (2006.01); **H01H 1/58** (2006.01); **H01H 9/02** (2006.01); **H01H 35/34** (2006.01); H01H 9/04 (2006.01)

CPC (source: EP KR)

H01H 1/5866 (2013.01 - EP); **H01H 35/24** (2013.01 - KR); **H01H 35/34** (2013.01 - EP); H01H 1/5844 (2013.01 - EP); H01H 9/04 (2013.01 - EP)

Cited by

CN106595804A; GB2546184A; RU2654337C1; US10217583B2; WO2016061655A1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 0764960 A2 19970326; **EP 0764960 A3 20000315**; **EP 0764960 B1 20040818**; DE 69633161 D1 20040923; DE 69633161 T2 20050127; JP 3778626 B2 20060524; JP H09120762 A 19970506; KR 100436808 B1 20040831; KR 970017754 A 19970430

DOCDB simple family (application)

EP 96306625 A 19960912; DE 69633161 T 19960912; JP 24664496 A 19960918; KR 19960040312 A 19960917