

Title (en)

Optical sensor circuit, luminous panel and method for operating an optical sensor circuit

Title (de)

Optische Sensorschaltung, Leuchttafel und Verfahren zum Betreiben einer optischen Sensorschaltung

Title (fr)

Circuit à capteur optique, panneau lumineux et procédé pour faire fonctionner un circuit de capteur optique

Publication

EP 2900037 A1 20150729 (EN)

Application

EP 14152147 A 20140122

Priority

EP 14152147 A 20140122

Abstract (en)

An optical sensor circuit comprises an optical sensor (DET) designed to provide a sensor signal indicative of a color of light incident on the optical sensor (DET), a clock designed to provide a clocked control signal comprising consecutive high and low states, and a controller unit (CU) connected to the optical sensor (DET) and comprising the clock. The controller unit (CU) is designed to process the sensor signal as a color signal (CTS) in a first mode if the clocked control signal is in a high state, wherein the color signal (CTS) is indicative of a color of light emitted by a light emitting device (LED) to be connected at a control terminal (OUT). The controller unit (CU) is further designed to process the sensor signal as an ambient color light signal (aCTS) in a second mode if the clocked control signal is in a low state, wherein the ambient color light signal (aCTS) is indicative of a color of ambient light. The controller unit (CU) is also designed to generate a driving signal (PWM) to drive the light emitting device (LED), wherein the driving signal (PWM) depends on the color and ambient color light signal (CTS, aCTS).

IPC 8 full level

H05B 44/00 (2022.01)

CPC (source: EP)

H05B 45/22 (2020.01); **H05B 45/327** (2020.01)

Citation (search report)

- [X] US 2009167195 A1 20090702 - KATSU YOSHIHIRO [JP]
- [X] US 2010207531 A1 20100819 - PEKER ARKADIY [US], et al

Cited by

CN109470328A; AT17491U1; WO2021170455A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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