

Title (en)

CIRCUIT ARRANGEMENT FOR THE AUTOMATIC FUNCTION-CHECKING OF A MONITORING DEVICE

Publication

EP 0287991 B1 19910918 (DE)

Application

EP 88106147 A 19880418

Priority

DE 3713392 A 19870421

Abstract (en)

[origin: EP0287991A1] The arrangement is for optical signal systems with a test system (PRS) which simulates faults by appropriately influencing (BE) the monitoring unit (UWE). An alarm (ALA) thereby triggered is suppressed during the period of the test. The circuit arrangement consists of a fail-safe exclusive OR circuit (EXOR) which has a locking (KI) alarm relay (K) and two pump circuits (A and B) each with an associated capacitor (C3, C4), and an RC element (RI, CI and R14, C2) fitted in the input circuit and switching transistors (T1 to T6). The pump circuits (A, B) generate the excitation voltage for the alarm relay (K). The first pump circuit (A) receives the alarm signal (ALA) and the second pump circuit (B) receives the alarm suppression signal (ALU). In each case, one pump circuit (A or B) charges its capacitor (C3 or C4) whilst the other pump circuit (B or A) discharges its capacitor (C4 or C3) via the alarm relay (K), the alarm relay (K) dropping out when the negative capacitor voltage goes below the drop-out voltage. <IMAGE>

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