(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/11/2023

(21) Application No.202311078566 A
(43) Publication Date : 29/12/2023

(54) Title of the invention : FAULT DETECTING SYSTEM FOR STREET LIGHTS

(51) International classification :F21V23/00, F21W131/103, G01R31/00, G06N3/08, H05B37/03
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to a fault detection system (102) for street light. The system (102) further includes LDR sensor (104), voltage sensor (106), LED light (108), microcontroller (110), plurality of resistors (114a-114n), plurality of jumper wires (116a-116n) and battery (118). The method (200) includes enabling LDR sensor (104) to collect data and transmit them to microcontroller (110). The method (200) further includes processing received data to determine streetlight intensity, if detected value falls in between 50-400 lux, activate voltage sensor (106) to measure voltage within system (102). The method (200) further includes processing measured voltage data to identify circuit flaws based on voltage range. The method (200) further includes activating LED light (108) upon confirming voltage within acceptable range and indicating circuit defect if voltage is out of range. The method (200) further includes activating GSM (110) to transmit signals representing faults to user device of concerned authority.

No. of Pages : 22 No. of Claims : 10