## Test Case 2.8

Validated Requirements

185: Provide CDD fault information,detected by the Light Sensor. (Functional Requirement)

Description

This test case is to verify that light sensor fault of car door display (CDD) on each side is faulty/not faulty.

Categories

|  |  |
| --- | --- |
| Formal Test | Yes |
| Execution Environment | Lab |
| V-Level | System |
| Function Group | Passenger Information and Entertainment Systems |
| Regression | No |
| Automated | No |
| Single Unit Operation Applicability | Yes |
| Multiple Unit Operation Applicability | No |

Pre-Condition

Set Train in TS4 State for DT-1 Cab.

Test Case Design

|  |  |  |
| --- | --- | --- |
| **Nos** | **Action** | **Expected Result** |
| 1 | Set light sensor fault as not faulty for all Car door display from TCCU1 | Verify that no event logged. |
| 2 | Set light sensor fault of car door display -1 for DT-1 Car for right side as Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for right side CDD-1 is active.   Verify that no event is active for right side CDD-2   Verify that no event is active for right side CDD-3   Verify that no event is active for right side CDD-4 |
| 3 | Set light sensor fault of Car door display -2  for DT-1 Car for right side as Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for right side CDD-1 is still active.   Verify that event "light sensor fault of Car door display" for right side CDD-2 is active.   Verify that no event is active for right side CDD-3   Verify that no event is active for right side CDD-4 |
| 4 | Set light sensor fault of Car door display -3 for DT-1 Car for right side as Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for right side CDD-1 is still active.  Verify that event "light sensor fault of Car door display" for right side CDD-2 is still active.  Verify that event "light sensor fault of Car door display" for right side CDD-3 is active.  Verify that no event is active for right side CDD-4 |
| 5 | Set light sensor fault of Car door display -4 for DT-1 Car for right side as Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for right side CDD-1 is still active.   Verify that event "light sensor fault of Car door display" for right side CDD-2 is still active.   Verify that event "light sensor fault of Car door display" for right side CDD-3 is still active.   Verify that event "light sensor fault of Car door display" for right side CDD-4 is active. |
| 6 | Set light sensor fault of Car door display -1 for DT-1 Car for right side as not Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for right side CDD-1 is  inactive.   Verify that event "light sensor fault of Car door display" for right side CDD-2 is still active.   Verify that event "light sensor fault of Car door display" for right side CDD-3 is still active.   Verify that event "light sensor fault of Car door display" for right side CDD-4 is still active. |
| 7 | Set light sensor fault of Car door display -2 for DT-1 Car for right side as not Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for right side CDD-2 is inactive.   Verify that event "light sensor fault of Car door display" for right side CDD-3 is still active.   Verify that event "light sensor fault of Car door display" for right side CDD-4 is still active. |
| 8 | Set light sensor fault of Car door display -3 for DT-1 Car for right side as not Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for right side CDD-3 is inactive.   Verify that event "light sensor fault of Car door display" for right side CDD-4 is still active. |
| 9 | Set light sensor fault of Car door display -4 for DT-1 Car for right side as not Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for right side CDD-4 is inactive. |
| 10 | Set light sensor fault of car door display -1 for DT-1 Car for left side as Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for left side CDD-1 is active.   Verify that no event is active for left side CDD-2   Verify that no event is active for left side CDD-3   Verify that no event is active for left side CDD-4 |
| 11 | Set light sensor fault of Car door display -2 for DT-1 Car for left side as Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for left side CDD-1 is still active.   Verify that event "light sensor fault of Car door display" for left side CDD-2 is active.   Verify that no event is active for left side CDD-3   Verify that no event is active for left side CDD-4 |
| 12 | Set light sensor fault of Car door display -3 for DT-1 Car for left side as Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for left side CDD-1 is still active.  Verify that event "light sensor fault of Car door display" for left side CDD-2 is still active.  Verify that event "light sensor fault of Car door display" for left side CDD-3 is active.  Verify that no event is active for left side CDD-4 |
| 13 | Set light sensor fault of Car door display -4 for DT-1 Car for left side as Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for left side CDD-1 is still active.   Verify that event "light sensor fault of Car door display" for left side CDD-2 is still active.   Verify that event "light sensor fault of Car door display" for left side CDD-3 is still active.   Verify that event "light sensor fault of Car door display" for left side CDD-4 is active. |
| 14 | Set light sensor fault of Car door display -1 for DT-1 Car for left side as not Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for left side CDD-1 is  inactive.   Verify that event "light sensor fault of Car door display" for left side CDD-2 is still active.   Verify that event "light sensor fault of Car door display" for left side CDD-3 is still active.   Verify that event "light sensor fault of Car door display" for left side CDD-4 is still active. |
| 15 | Set light sensor fault of Car door display -2 for DT-1 Car for left side as not Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for left side CDD-2 is inactive.   Verify that event "light sensor fault of Car door display" for left side CDD-3 is still active.   Verify that event "light sensor fault of Car door display" for left side CDD-4 is still active. |
| 16 | Set light sensor fault of Car door display -3 for DT-1 Car for left side as not Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for left side CDD-3 is inactive.   Verify that event "light sensor fault of Car door display" for left side CDD-4 is still active. |
| 17 | Set light sensor fault of Car door display -4 for DT-1 Car for left side as not Faulty from TCCU-1 | Verify that event "light sensor fault of Car door display" for left side CDD-4 is inactive. |
| 18 | Repeat Action-2 to Action-17 for all other Cars | |
| 19 | Deactivate DT-1 Cab and activate DT-2 Cab. | |
| 20 | Repeat Action-1 to Action-17 for all Car where light sensor fault of Car door display received from TCCU-2 | |
| 21 | Deactivate DT-2 Cab. | |

Post-Condition

Train is in TS1 State.