

FORD LDM Localization - 功能 #2528

功能 # 2519 (已关闭): Ford_SYSR: System Requirement

Ford_SYSR : FS_REQ0008_V1 Side Detection

2024-10-24 17:38 - 玉洁 金

状态:	已关闭	开始日期:	2024-11-01
优先级:	普通	计划完成日期:	2024-11-07
指派给:	玉洁 金	% 完成:	100%
类别:		预期时间:	0.00 小时
目标版本:	H003_SW0007169.A001.8	耗时:	0.00 小时

描述									
The LDMs will be used on a single LIN bus and needs to have defined mounting position information. To keep the LDM part number complexity low, a side detection input shall be used to detect in-vehicle mounting position as follows:									
	<table><tr><th>A</th><th>B</th></tr><tr><td>PIN to GND</td><td>LDM mounted left side of the vehicle</td></tr><tr><td>PIN to VBAT</td><td>LDM mounted right side of the vehicle</td></tr><tr><td>PIN to undefined</td><td>LDM shall use last saved mounting position (If available) LDM shall report a failure acc. to failure reporting (If no mounting position in memory available) , LDM will use left as the default</td></tr></table>	A	B	PIN to GND	LDM mounted left side of the vehicle	PIN to VBAT	LDM mounted right side of the vehicle	PIN to undefined	LDM shall use last saved mounting position (If available) LDM shall report a failure acc. to failure reporting (If no mounting position in memory available) , LDM will use left as the default
A	B								
PIN to GND	LDM mounted left side of the vehicle								
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Table 6: EEL LIN Side Detection

The mounting position learning shall happen on LDM power on. The side detected shall then be fixed in the nonvolatile memory. This learning event will fix the LIN IDs as well. LIN ID of LDM shall be saved in nonvolatile memory.

Every LDM will have its own power supply differentiating the left and right-side mounting position.
Note that it is critical to tie the side detection pin to the same power mode/source as close as possible to the LDM to have reliable side detection since side detection will occur when the LDM powers on. The side detection pin shall be connected internally to the headlamp. Below the definition is shown how to do so:

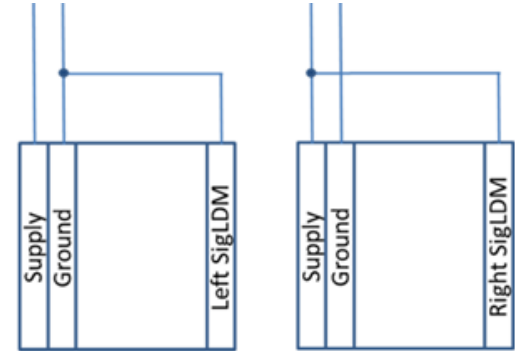


Figure 7: Side Detection Interface Description

子任务:	
功能 # 2776: Ford_SWER_0008_0001: 左右识别的电压范围	已关闭
功能 # 2777: Ford_SWER_0008_0002: 左右识别AD转换	已关闭
功能 # 2791: Ford_SWER_0008_0003: 左右识别的task调度及策略	已关闭
功能 # 2793: Ford_SWER_0008_0004: 左右识别的故障报警	已关闭
功能 # 2801: Ford_SWER_0008_0005: 左右识别的数据调用存储	已关闭

历史记录

#1 - 2024-10-25 09:27 - 涛 陆

完成

#2 - 2024-11-18 12:56 - 斌 徐
- 状态 从 新建 变更为 已关闭

文件

clipboard-202410241732-jwf0q.png	17 KB	2024-10-24	玉洁 金
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