FMS CAN Protocol		Project	MDSM-22		
		Doc. Name	FMS CAN output message Protocol		
		Date of issue	2022.09.01	Release Ver.	0.9
Production Department	AI Systems			Written By	Bosung Kim

MDSM-22

FMS CAN Output message Protocol

Movon Corporation

FMS CAN Protocol		Project	MDSM-22		
		Doc. Name	FMS CAN output message Protocol		
		Date of issue	2022.09.01	Release Ver.	0.9
Production Department	AI Systems			Written By	Bosung Kim

No	Version	Date	Contents	Written	Check	Appr.	Note
1	0.9	2022.09.01	Initial Release	Bosung Kimg			

FMS CAN Protocol		Project	MDSM-22		
		Doc. Name	FMS CAN output message Protocol		
		Date of issue	2022.09.01	Release Ver.	0.9
Production Department	AI Systems			Written By	Bosung Kim

1. Introduction

This documentation describes the CAN output message protocol of MDSM-22.

2.1 Vehicle data CAN message: ID - 0x630 (500K) 0x18063053 (250K)

Bit	7(msb)	6	5	4	3	2	1	0(lsb)
Byte 0	Camera Error	Camera Blocked	Driver Absence	Smoking	Phone	Yawning	Distraction	Drowsiness
Byte 1	0	0	0	0	0	0	0	Mask detected
Byte 2	0							
Byte 3	0							
Byte 4	0							
Byte 5	0							
Byte 6	1 alphabetical character of Driver Name							
Byte 7	2 alphabetical character of Driver Name							

* 0 = reserved

2.1.1 Byte 0 (DSM)

2.1.1.1 Drowsiness (bit 0)

Type: Bool

0	None
1	Drowsiness is detected

2.1.1.2 Distraction (bit 1)

Type: Bool

0	None
1	Distraction is detected

2.1.1.3 Yawning (bit 2)

Type: Bool

0	None
1	Yawning is detected

2.1.1.4 Phone (bit 3)

Type: Bool

0	None
1	Using phone is detected

2.1.1.5 Smoking (bit 4)

Type: Bool

0	None
1	Smoking is detected

2.1.1.6 Driver Absence (bit 5)

Type: Bool

0	Normal
1	Driver is Absence

2.1.1.7 Camera Blocked (bit 6)

Type: Bool

0	Normal
1	Camera is blocked

2.1.1.8 Camera Error (bit 7)

Type: Bool

0	Normal
1	Camera is an error

2.1.2 Byte 1

3.1.2.1 Mask detected (bit 0)

Type: Bool

0	None
1	Face Mask is detected

2.1.3 Byte 6~7

3.1.3.1 1~2 alphabetical character of Driver Name

Type: unsigned char (ASCII)

2.2 Vehicle data CAN message: ID - 0x631 (500K) 0x18063153 (250k)

Bit	7(msb)	6	5	4	3	2	1	0(lsb)
Byte 0	3 alphabetical character of Driver Name							
Byte 1	4 alphabetical character of Driver Name							
Byte 2	5 alphabetical character of Driver Name							
Byte 3	6 alphabetical character of Driver Name							
Byte 4	7 alphabetical character of Driver Name							
Byte 5	8 alphabetical character of Driver Name							
Byte 6	9 alphabetical character of Driver Name							
Byte 7	10 alphabetical character of Driver Name							

* 0 = reserved

2.2.1 Byte 0 ~ 7

3.2.1.1 3~10 alphabetical character of Driver Name

Type: unsigned char (ASCII)