CAN protocol description

CAN bus uses 1Mbaud with 11-bit identifiers

# 0x500 control message

Sent by flight controller. Sets positions of all 3 rotary joints.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Byte | Type | DLC | 0-1 | 2-3 | 4-5 |
| Value | Data | 6 | Joint 0 position | Joint 1 position | Joint 2 position |

# 0x510 joint 0 status message

# 0x511 joint 0 sens**o**r group 1 **readings**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Byte | Type | DLC | 0-1 | 2-3 | 4-5 | 6-7 |
| Value | Data | 8 | Sensor 0 | Sensor 1 | Sensor 2 | Sensor 3 |

# 0x51**2** joint 0 sensor **group 2** **readings**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Byte | Type | DLC | 0-1 | 2-3 | 4-5 | 6-7 |
| Value | Data | 8 | Sensor 4 | Sensor 5 | Sensor 6 | Sensor 7 |

# 0x51**3** joint 0 sensor **group 3** **readings**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Byte | Type | DLC | 0-1 | 2-3 | 4-5 | 6-7 |
| Value | Data | 8 | Sensor 8 | Sensor 9 | Sensor 10 | Sensor 11 |

# 0x51**4** joint 0 sensor **group 4** **readings**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Byte | Type | DLC | 0-1 | 2-3 | 4-5 | 6-7 |
| Value | Data | 8 | Sensor 12 | Sensor 13 | Sensor 14 | Sensor 15 |

# 0x515 joint 0 sensor **group 5** **readings**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Byte | Type | DLC | 0-1 | 2-3 | 4-5 | 6-7 |
| Value | Data | 8 | Sensor 16 | Sensor 17 | Sensor 18 | Sensor 19 |