



Status Message Data KSM100

Manual for related extension modules KSM 4x and KSM 5x.

Note: The German version is the original version of the Status Message Data manual.

Status: 06/2013

Subject to change without prior notification

The contents of this documentation has been collated with greatest care and corresponds with our present status of information. However, we would like to point out, that this document cannot always be updated at the same time as the technical development of the product progress. Note information and specifications can be changed at any time. Please keep yourself informed about the current version under www.kollmorgen.com.

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Important Notes

Definition of individual target groups

Project engineers for safe drive systems:
Engineers and technicians

Assembly, electric installation, maintenance and replacement of devices:
Maintenance electricians and service technicians

Commissioning, operation and configuration:
Technicians and engineers

Operating

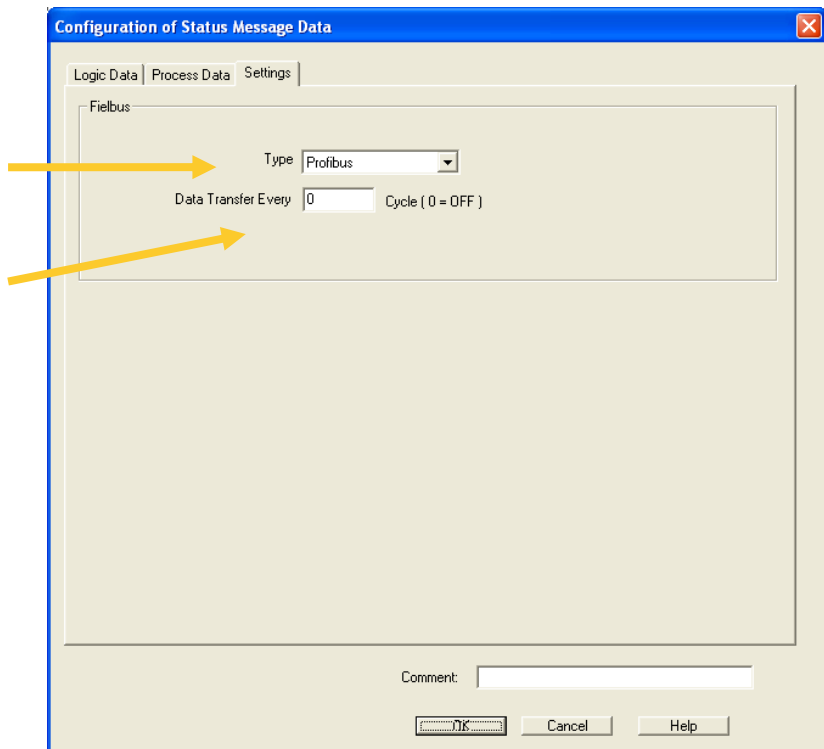
The master device transmits diagnostic data to several non safe bus interface devices.

Configuration

Settings for firmware version up to V2.1.0.9

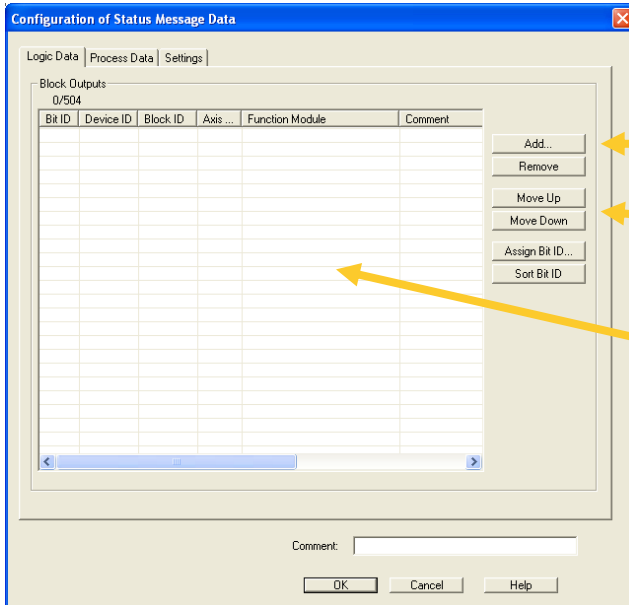
Fieldbus Type

Data Transfer Cycle
0: no transmission
1...255: x* cycle time



Status Message Data

Logic Data

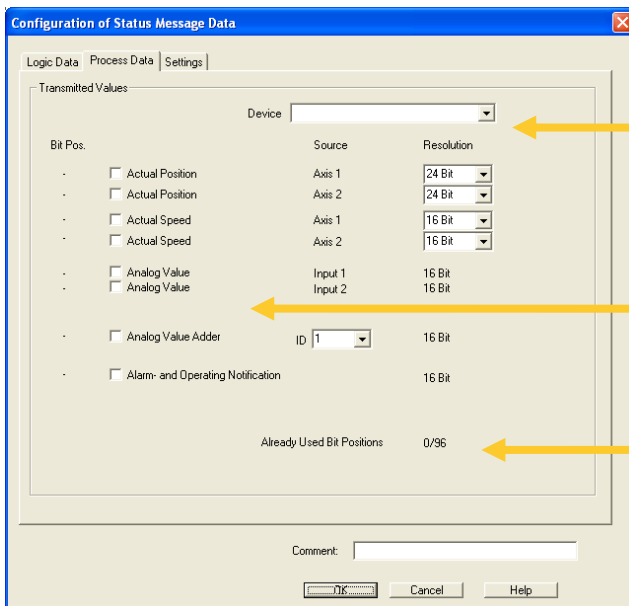


User Data Selection

Moving the Selected Data Bit Position

View of All Added Logic Data

Process Data



Device Selection

Process Data Selection

View of Used Bits

Example:

If the Actual position axes 1 (24 Bit), Actual SLP Teach In Position (24 Bit) and Alarm and Operation Notification is set the process data frame is arranged:

- Bit 0...23: Actual position axes 1
- Bit 24...47: Actual SLP Teach In Position
- Bit 48...63: Alarm and Operation Notification
- Bit 64...95: free

Status Message Data

Settings for Firmware version starting at V2.1.0.10

The screenshot shows a software configuration window titled "Configuration of Status Message Data". It has three tabs: "Settings", "Logic Data", and "Process Data". The "Settings" tab is active. The window is divided into two main sections: "Fieldbus Out" and "Fieldbus In".

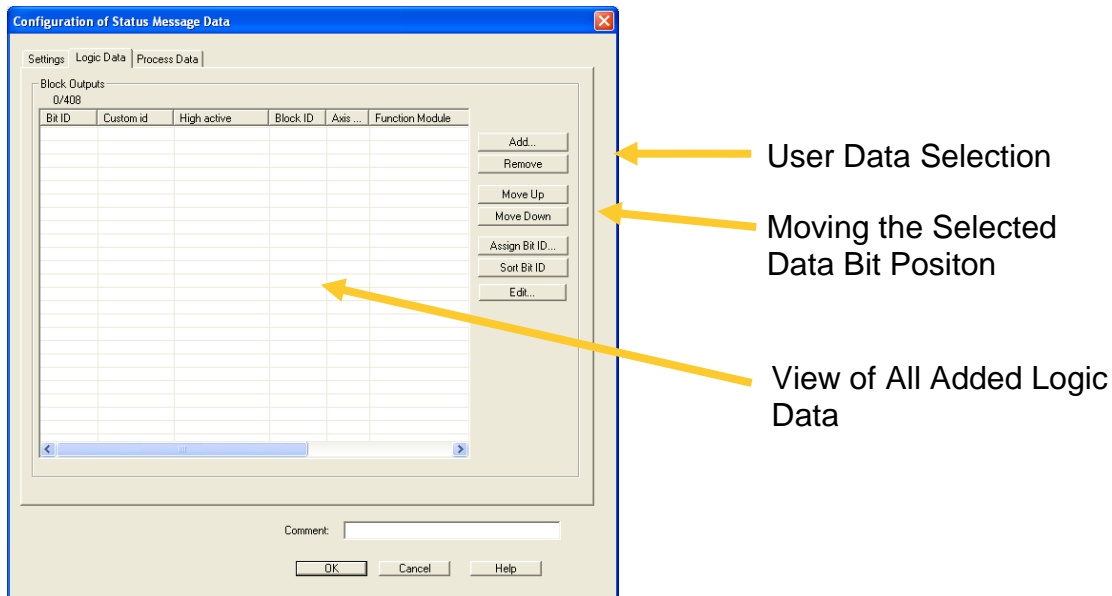
- Fieldbus Out:**
 - Fieldbus Activation
 - Data Transfer Every: 1 Cycle (0 = OFF)
 - Timeout: 0 (ms)
 - Device Profile: Profile 2 (profile assignment) - 56 Byte logic data, then 12 Byte process data per s
- Fieldbus In:**
 - Functional Inputs Activation

At the bottom, there is a "Type" dropdown menu set to "Profibus" and a "Comment" text field. The KOLLMORGEN logo and "OK", "Cancel", and "Help" buttons are at the bottom right.

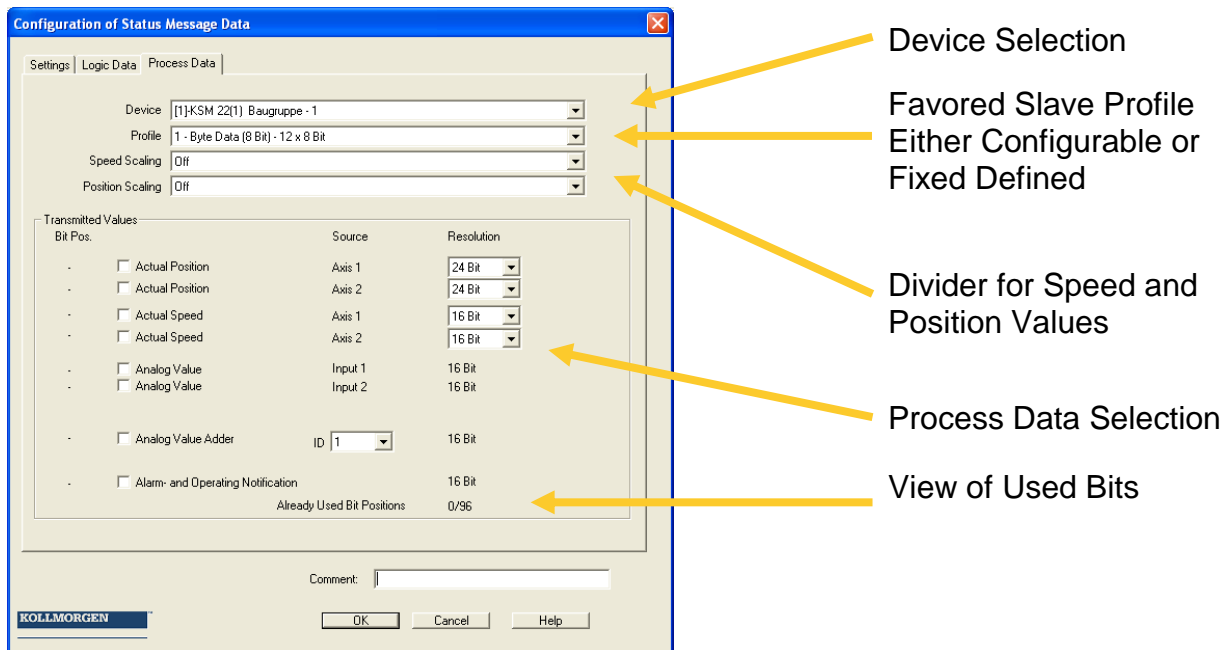
Annotations with yellow arrows point to the following elements:

- Activation Data Transfer (points to Fieldbus Activation)
- Transmission Cycle (points to Data Transfer Every)
- 0: No Data Transmission
1...255: x* Cycle Time (points to the value 1 in the Data Transfer Every field)
- Currently Not Used (points to Timeout)
- Setting Device Profile (points to Device Profile)
- Enable Functional Inputs (points to Functional Inputs Activation)
- Currently Not Used (points to Type)

Logic Data



Process Data



Example:

If the Actual position axes 1(24 Bit), Actual SLP Teach In Position (24 Bit) and Alarm and Operation Notification is set the process data frame is arranged:

- Bit 0...23: Actual position axes 1
- Bit 24...47: Actual SLP Teach In Position
- Bit 48...63: Alarm and Operation Notification

Bit 64...95: Free

Structure Status Message Data

Structure Device Profile 0 (=Legacy Profil)

Configuration with slave devices

Organization of the frame

Size of diagnostic data: 128 Byte

| Byte Offset | Description | Data Size |
|-------------|--------------------------------------------------------|-----------|
| 0 | Bit data type 1 (Logic data Bit ID1 to Bit ID56) | 8 Byte |
| 8 | Process data slave device addr. 1 | 12 Byte |
| 20 | Bit data type 1 (Logic data Bit ID57 to Bit ID112) | 8 Byte |
| 28 | Process data slave device addr. 2 | 12 Byte |
| 40 | Bit data type 1 (Logic data Bit ID113 to Bit ID168) | 8 Byte |
| 48 | Process data slave device addr. 3 | 12 Byte |
| 60 | Bit data type 1 (Logic data Bit ID169 to Bit ID224) | 8 Byte |
| 68 | Process data slave device addr. 4 | 12 Byte |
| 80 | Bit data type 1 (Logic data Bit ID225 to Bit ID280) | 8 Byte |
| 88 | Process data slave device addr. 5 | 12 Byte |
| 100 | Bit data type 1 (Logic data Bit ID281 to Bit ID336) | 8 Byte |
| 108 | Process data slave device addr. 6 | 12 Byte |
| 120 | Bit data type 1 (Logic data Bit ID337 to Bit ID392) | 8 Byte |

Offset error code of slave device: offset bit data + 6

Status Message Data

Configuration with no slave device

Organization of the frame

Size of diagnostic data: 128 Byte

| Byte Offset | Description | Data Size |
|-------------|--------------------------------------------------------|-----------|
| 0 | Bit data type1 (Logic data Bit ID1 to Bit ID56) | 8 Byte |
| 8 | Bit data type 2 (Logic data Bit ID57 to Bit ID112) | 7 Byte |
| 15 | Bit data type 2 (Logic data Bit ID113 to Bit ID168) | 7 Byte |
| 22 | Bit data type 2 (Logic data Bit ID169 to Bit ID224) | 7 Byte |
| 29 | Bit data type 2 (Logic data Bit ID225 to Bit ID280) | 7 Byte |
| 36 | Bit data type 2 (Logic data Bit ID281 to Bit ID336) | 7 Byte |
| 43 ...127 | Not used | |

Offset error code of master device: offset bit data + 6 (only for Bit data type 1)

Status Message Data

Bit Data Type 1

| Byte | Bit | Run Mode (2, 3, 4) | Error Case (A, F) |
|--------|-------|---------------------------------------------------|----------------------|
| Byte 0 | 0...3 | KSM mode 1, 2, 3, 4, 5, 6 = FatalError, 7 = Alarm | |
| | 4 | 0x1 (define) | |
| | 5..7 | Alive counter (3 Bit) | |
| Byte 1 | 0...7 | Logic data(Bit ID: 49..56) | |
| Byte 2 | 0...7 | Logic data (Bit ID: 41..48) | |
| Byte 3 | 0...7 | Logic data (Bit ID: 33..40) | |
| Byte 4 | 0...7 | Logic data (Bit ID: 9..16) | |
| Byte 5 | 0...7 | Logic data (Bit ID: 1...8) | |
| Byte 6 | 0..6 | Logic data (Bit ID:25.. 31) | error code high Byte |
| | 7 | 0 | 1 |
| Byte 7 | 0..7 | Logic data (Bit ID: 17..24) | error code low Byte |

Bit Data Type 2

| Byte | Bit | Assignment |
|--------|-------|--------------------------|
| Byte 0 | 0...7 | Logic data (Bit: 49..56) |
| Byte 1 | 0...7 | Logic data (Bit: 41..48) |
| Byte 2 | 0...7 | Logic data (Bit: 33..40) |
| Byte 3 | 0...7 | Logic data (Bit: 9..16) |
| Byte 4 | 0...7 | Logic data (Bit: 1...8) |
| Byte 5 | 0..6 | Logic data (Bit 25.. 31) |
| | 7 | 0 |
| Byte 6 | 0..7 | Logic data (Bit: 17..24) |

Process Data

| Byte | Data |
|--------|-------------------------|
| BYTE 0 | Process data Bit 0..7 |
| BYTE 1 | Process data Bit 8..15 |
| BYTE 2 | Process data Bit 16..23 |
| BYTE 3 | Process data Bit 24..31 |
| BYTE 4 | Process data Bit 32..39 |
| BYTE 5 | Process data Bit 40..47 |
| BYTE 6 | Process data Bit 48..55 |
| BYTE 7 | Process data Bit 56..63 |

Status Message Data

| Byte | Data |
|---------|-------------------------|
| BYTE 8 | Process data Bit 64..71 |
| BYTE 9 | Process data Bit 72..79 |
| BYTE 10 | Process data Bit 80..87 |
| BYTE 11 | Process data Bit 88..95 |

Examples

Example 1 Configuration Master with slave device

The image displays two screenshots of the 'Configuration of Status Message Data' software interface.

Top Screenshot: Block Outputs Configuration

The interface shows the 'Block Outputs' section with a table of 4/504 outputs. The table has the following columns: Bit ID, Device ID, Block ID, Axis, Function Module, and Comment.

| Bit ID | Device ID | Block ID | Axis ... | Function Module | Comment |
|--------|-----------|----------|----------|----------------------------------|---------|
| 01 | 0 | 3 | - | E0.1 - PLC In/Output signal list | |
| 02 | 0 | 3 | - | E0.2 - PLC In/Output signal list | |
| 33 | 0 | 99 | - | AK0.1 - Relay | |
| 34 | 0 | 107 | - | AK0.2 - Relay | |

Buttons on the right side include: Add..., Remove, Move Up, Move Down, Assign Bit ID..., and Sort Bit ID.

Bottom Screenshot: Transmitted Values Configuration

The interface shows the 'Transmitted Values' section. The 'Device' is set to '[1]-SMX 22[1] Baugruppe - 1'. The table below lists various data sources and their resolutions.

| Bit Pos. | Source | Resolution |
|----------|-----------------------------------|------------|
| 0 | Axis 1 | 24 Bit |
| - | Axis 2 | 24 Bit |
| 24 | Axis 1 | 16 Bit |
| - | Axis 2 | 16 Bit |
| - | Input 1 | 16 Bit |
| - | Input 2 | 16 Bit |
| - | ID 1 | 16 Bit |
| - | Alarm- and Operating Notification | 16 Bit |

At the bottom, it indicates 'Already Used Bit Positions: 40/96'.

Status Message Data

Organization of Status Message Data

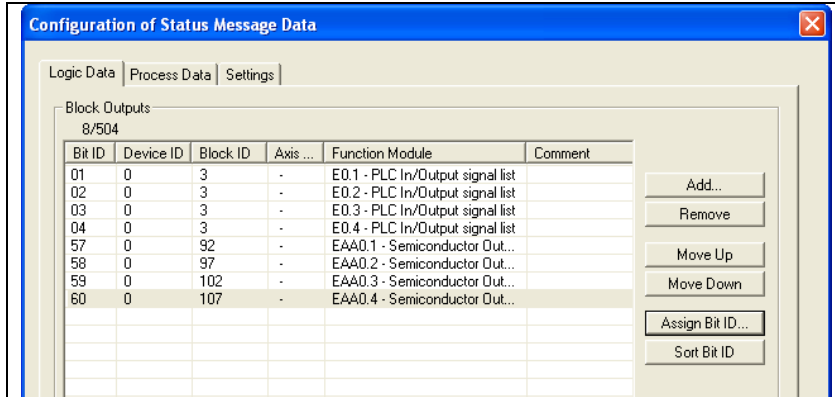
| Byte | Bit | Type | Description |
|------|-------|----------|---------------------------|
| 0 | 0...3 | Bit data | KSM mode |
| | 4 | | 1 |
| | 5...7 | | Alive counter |
| 1 | 0 | Bit data | Bit ID49: 0 |
| | 1 | | Bit ID50: 0 |
| | 2 | | Bit ID51: 0 |
| | 3 | | Bit ID52: 0 |
| | 4 | | Bit ID53: 0 |
| | 5 | | Bit ID54: 0 |
| | 6 | | Bit ID55: 0 |
| | 7 | | Bit ID56: 0 |
| 2 | 0 | Bit data | Bit ID41: 0 |
| | 1 | | Bit ID42: 0 |
| | 2 | | Bit ID43: 0 |
| | 3 | | Bit ID44: 0 |
| | 4 | | Bit ID45: 0 |
| | 5 | | Bit ID46: 0 |
| | 6 | | Bit ID47: 0 |
| | 7 | | Bit ID48: 0 |
| 3 | 0 | Bit data | Bit ID33: AK0.1 |
| | 1 | | Bit ID34: AK0.2 |
| | 2 | | Bit ID35: 0 |
| | 3 | | Bit ID36: 0 |
| | 4 | | Bit ID37: 0 |
| | 5 | | Bit ID38: 0 |
| | 6 | | Bit ID39: 0 |
| | 7 | | Bit ID40: 0 |
| 4 | 0 | Bit data | Bit ID09: 0 |
| | 1 | | Bit ID10: 0 |
| | 2 | | Bit ID11: 0 |
| | 3 | | Bit ID12: 0 |
| | 4 | | Bit ID13: 0 |
| | 5 | | Bit ID14: 0 |
| | 6 | | Bit ID15: 0 |
| | 7 | | Bit ID16: 0 |
| 5 | 0 | Bit data | Bit ID01: E0.1 |
| | 1 | | Bit ID02: E0.2 |
| | 2 | | Bit ID03: 0 |
| | 3 | | Bit ID04: 0 |
| | 4 | | Bit ID05: 0 |
| | 5 | | Bit ID06: 0 |
| | 6 | | Bit ID07: 0 |
| | 7 | | Bit ID08: 0 |
| 6 | 0 | Bit data | Bit ID25: 0 or error code |
| | 1 | | Bit ID26: 0 or error code |
| | 2 | | Bit ID27: 0 or error code |
| | 3 | | Bit ID28: 0 or error code |
| | 4 | | Bit ID29: 0 or error code |
| | 5 | | Bit ID30: 0 or error code |

Status Message Data

| Byte | Bit | Type | Description |
|------|-------|--------------|----------------------------------|
| | 6 | | Bit ID31: 0 or error code |
| | 7 | | Bit ID32: 0-> no error; 1->error |
| 7 | 0 | Bit data | Bit ID17: 0 or error code |
| | 1 | | Bit ID18: 0 or error code |
| | 2 | | Bit ID19: 0 or error code |
| | 3 | | Bit ID20: 0 or error code |
| | 4 | | Bit ID21: 0 or error code |
| | 5 | | Bit ID22: 0 or error code |
| | 6 | | Bit ID23: 0 or error code |
| | 7 | | Bit ID24: 0 or error code |
| 8 | 0...7 | Process data | Actual position (24 Bit) |
| 9 | 0...7 | Process data | |
| 10 | 0...7 | Process data | |
| 11 | 0...7 | Process data | Actual speed (16 Bit) |
| 12 | 0...7 | Process data | |
| 13 | 0...7 | Process data | 0 |
| 14 | 0...7 | Process data | 0 |
| 15 | 0...7 | Process data | 0 |
| 16 | 0...7 | Process data | 0 |
| 17 | 0...7 | Process data | 0 |
| 18 | 0...7 | Process data | 0 |
| 19 | 0...7 | Process data | 0 |
| ... | ... | ... | |

Status Message Data

Example 2 Configuration only master device



| Byte | Bit | Type | Description |
|------|-------|----------|---------------|
| 0 | 0...3 | Bit data | KSM mode |
| | 4 | | 1 |
| | 5...7 | | Alive counter |
| 1 | 0 | Bit data | Bit ID49: 0 |
| | 1 | | Bit ID50: 0 |
| | 2 | | Bit ID51: 0 |
| | 3 | | Bit ID52: 0 |
| | 4 | | Bit ID53: 0 |
| | 5 | | Bit ID54: 0 |
| | 6 | | Bit ID55: 0 |
| | 7 | | Bit ID56: 0 |
| 2 | 0 | Bit data | Bit ID41: 0 |
| | 1 | | Bit ID42: 0 |
| | 2 | | Bit ID43: 0 |
| | 3 | | Bit ID44: 0 |
| | 4 | | Bit ID45: 0 |
| | 5 | | Bit ID46: 0 |
| | 6 | | Bit ID47: 0 |
| | 7 | | Bit ID48: 0 |
| 3 | 0 | Bit data | Bit ID33: 0 |
| | 1 | | Bit ID34: 0 |
| | 2 | | Bit ID35: 0 |
| | 3 | | Bit ID36: 0 |
| | 4 | | Bit ID37: 0 |
| | 5 | | Bit ID38: 0 |
| | 6 | | Bit ID39: 0 |
| | 7 | | Bit ID40: 0 |
| 4 | 0 | Bit data | Bit ID09: 0 |
| | 1 | | Bit ID10: 0 |
| | 2 | | Bit ID11: 0 |
| | 3 | | Bit ID12: 0 |
| | 4 | | Bit ID13: 0 |
| | 5 | | Bit ID14: 0 |

Status Message Data

Because Motion Matters™

| Byte | Bit | Type | Description |
|------|-----|----------|----------------------------------|
| | 6 | | Bit ID15: 0 |
| | 7 | | Bit ID16: 0 |
| 5 | 0 | Bit data | Bit ID01: E0.1 |
| | 1 | | Bit ID02: E0.2 |
| | 2 | | Bit ID03: E0.3 |
| | 3 | | Bit ID04: E0.4 |
| | 4 | | Bit ID05: 0 |
| | 5 | | Bit ID06: 0 |
| | 6 | | Bit ID07: 0 |
| | 7 | | Bit ID08: 0 |
| 6 | 0 | Bit data | Bit ID25: 0 or error code |
| | 1 | | Bit ID26: 0 or error code |
| | 2 | | Bit ID27: 0 or error code |
| | 3 | | Bit ID28: 0 or error code |
| | 4 | | Bit ID29: 0 or error code |
| | 5 | | Bit ID30: 0 or error code |
| | 6 | | Bit ID31: 0 or error code |
| | 7 | | Bit ID32: 0-> no error; 1->error |
| 7 | 0 | Bit data | Bit ID17: 0 or error code |
| | 1 | | Bit ID18: 0 or error code |
| | 2 | | Bit ID19: 0 or error code |
| | 3 | | Bit ID20: 0 or error code |
| | 4 | | Bit ID21: 0 or error code |
| | 5 | | Bit ID22: 0 or error code |
| | 6 | | Bit ID23: 0 or error code |
| | 7 | | Bit ID24: 0 or error code |
| 8 | 0 | | Bit ID105: 0 |
| | 1 | | Bit ID106: 0 |
| | 2 | | Bit ID107: 0 |
| | 3 | | Bit ID108: 0 |
| | 4 | | Bit ID109: 0 |
| | 5 | | Bit ID110: 0 |
| | 6 | | Bit ID111: 0 |
| | 7 | | Bit ID112: 0 |
| 9 | 0 | | Bit ID97: 0 |
| | 1 | | Bit ID98: 0 |
| | 2 | | Bit ID99: 0 |
| | 3 | | Bit ID100: 0 |
| | 4 | | Bit ID101: 0 |
| | 5 | | Bit ID102: 0 |
| | 6 | | Bit ID103: 0 |
| | 7 | | Bit ID104: 0 |
| 10 | 0 | | Bit ID89: 0 |
| | 1 | | Bit ID90: 0 |
| | 2 | | Bit ID91: 0 |
| | 3 | | Bit ID92: 0 |
| | 4 | | Bit ID93: 0 |
| | 5 | | Bit ID94: 0 |
| | 6 | | Bit ID95: 0 |
| | 7 | | Bit ID96: 0 |
| 11 | 0 | | Bit ID65: 0 |

Status Message Data

Because Motion Matters™

| Byte | Bit | Type | Description |
|------|-----|------|-------------------------|
| | 1 | | Bit ID66: 0 |
| | 2 | | Bit ID67: 0 |
| | 3 | | Bit ID68: 0 |
| | 4 | | Bit ID69: 0 |
| | 5 | | Bit ID70: 0 |
| | 6 | | Bit ID71: 0 |
| | 7 | | Bit ID72: 0 |
| 12 | 0 | | Bit ID57: EAA0.1 |
| | 1 | | Bit ID58: EAA0.2 |
| | 2 | | Bit ID59: EAA0.3 |
| | 3 | | Bit ID60: EAA0.4 |
| | 4 | | Bit ID61: 0 |
| | 5 | | Bit ID62: 0 |
| | 6 | | Bit ID63: 0 |
| 13 | 0 | | Bit ID81: 0 |
| | 1 | | Bit ID82: 0 |
| | 2 | | Bit ID83: 0 |
| | 3 | | Bit ID84: 0 |
| | 4 | | Bit ID85: 0 |
| | 5 | | Bit ID86: 0 |
| | 6 | | Bit ID87: 0 |
| 14 | 0 | | Bit ID88: reserved |
| | 1 | | Bit ID73: 0 |
| | 2 | | Bit ID74: 0 |
| | 3 | | Bit ID75: 0 |
| | 4 | | Bit ID76: 0 |
| | 5 | | Bit ID77: 0 |
| | 6 | | Bit ID78: 0 |
| ... | 7 | | Bit ID79: 0 |
| | ... | ... | Bit ID80: 0 |
| | ... | ... | ... |

Status Message Data

Structure Device Profile 1 (=only Logic data)

| Byte | Bit | Run Mode (2, 3, 4) | Error Case (A, F) |
|---------|------|---------------------------------------------------|--------------------------------------------|
| Byte 0 | 0..3 | KSM mode 1, 2, 3, 4, 5, 6 = FatalError, 7 = Alarm | |
| | 4 | 0x1 (define) | |
| | 5..7 | Alive counter (3 Bit) | |
| Byte 1 | 0..7 | 0 | Device address where the error is occupied |
| Byte 2 | 0..7 | reserved | |
| Byte 3 | 0..7 | 0 | Error code low Byte |
| Byte 4 | 0..7 | 0 | Error code high Byte |
| Byte 5 | 0..7 | Logic data (Bit ID: 1..8) | |
| Byte 6 | 0..7 | Logic data (Bit ID: 9..16) | |
| Byte 7 | 0..7 | Logic data (Bit ID: 17..24) | |
| Byte 8 | 0..7 | Logic data (Bit ID: 25..31) | |
| Byte 9 | 0..7 | Logic data (Bit ID: 33..40) | |
| Byte 10 | 0..7 | Logic data (Bit ID: 41..48) | |
| ... | ... | | |
| Byte 55 | 0..7 | Logic data (Bit ID: 401..408) | |

Following logic data Bit IDs are reserved for compatibility reasons and cannot be used (value is 0):

- Bit ID 32
- Bit ID 88
- Bit ID 144
- Bit ID 200
- Bit ID 256
- Bit ID 312
- Bit ID 368

Status Message Data

Structure Device profile 2 (=408 Bit Logic data and 12 Byte Process data for every slave device)

| Byte | Bit | Run Mode (2, 3, 4) | Error Case (A, F) |
|---------|------|---------------------------------------------------|--------------------------------------------|
| Byte 0 | 0..3 | KSM mode 1, 2, 3, 4, 5, 6 = FatalError, 7 = Alarm | |
| | 4 | 0x1 (define) | |
| | 5..7 | Alive counter (3 Bit) | |
| Byte 1 | 0..7 | 0 | Device address where the error is occupied |
| Byte 2 | 0..7 | reserved | |
| Byte 3 | 0..7 | 0 | Error code low Byte |
| Byte 4 | 0..7 | 0 | Error code high Byte |
| Byte 5 | 0..7 | Logic data (Bit ID: 1..8) | |
| Byte 6 | 0..7 | Logic data (Bit ID: 9..16) | |
| Byte 7 | 0..7 | Logic data (Bit ID: 17..24) | |
| Byte 8 | 0..6 | Logic data (Bit ID: 25..31) | |
| | 7 | 0 | |
| Byte 9 | 0..7 | Logic data (Bit ID: 33..40) | |
| Byte 10 | 0..7 | Logic data (Bit ID: 41..48) | |
| ... | ... | | |
| Byte 55 | 0..7 | Logic data (Bit ID: 401..408) | |
| Byte 56 | 0..7 | Process data axis slave device 1 Bit 0..7 | |
| Byte 57 | 0..7 | Process data axis slave device 1 Bit 8..15 | |
| Byte 58 | 0..7 | Process data axis slave device 1 Bit 16..23 | |
| Byte 59 | 0..7 | Process data axis slave device 1 Bit 24..31 | |
| Byte 60 | 0..7 | Process data axis slave device 1 Bit 32..39 | |
| Byte 61 | 0..7 | Process data axis slave device 1 Bit 40..47 | |
| Byte 62 | 0..7 | Process data axis slave device 1 Bit 48..55 | |
| Byte 63 | 0..7 | Process data axis slave device 1 Bit 56..63 | |
| Byte 64 | 0..7 | Process data axis slave device 1 Bit 64..71 | |
| Byte 65 | 0..7 | Process data axis slave device 1 Bit 72..79 | |
| Byte 66 | 0..7 | Process data axis slave device 1 Bit 80..87 | |
| Byte 67 | 0..7 | Process data axis slave device 1 Bit 88..95 | |
| Byte 68 | 0..7 | Process data axis slave device 2 Bit 0..7 | |
| Byte 69 | 0..7 | Process data axis slave device 2 Bit 8..15 | |
| Byte 70 | 0..7 | Process data axis slave device 2 Bit 16..23 | |
| Byte 71 | 0..7 | Process data axis slave device 2 Bit 24..31 | |
| Byte 72 | 0..7 | Process data axis slave device 2 Bit 32..39 | |
| Byte 73 | 0..7 | Process data axis slave device 2 Bit 40..47 | |

Status Message Data

| Byte | Bit | Run Mode (2, 3, 4) | Error Case (A, F) |
|----------|------|--------------------------------|--------------------|
| Byte 74 | 0..7 | Process data axis slave device | 2 Bit 48..55 |
| Byte 75 | 0..7 | Process data axis slave device | 2 Bit 56..63 |
| Byte 76 | 0..7 | Process data axis slave device | 2 Bit 64..71 |
| Byte 77 | 0..7 | Process data axis slave device | 2 Bit 72..79 |
| Byte 78 | 0..7 | Process data axis slave device | 2 Bit 80..87 |
| Byte 79 | 0..7 | Process data axis slave device | 2 Bit 88..95 |
| Byte 80 | 0..7 | Process data axis slave device | 3 Bit 0..7 |
| Byte 81 | 0..7 | Process data axis slave device | 3 Bit 8..15 |
| Byte 82 | 0..7 | Process data axis slave device | 3 Bit 16..23 |
| Byte 83 | 0..7 | Process data axis slave device | 3 Bit 24..31 |
| Byte 84 | 0..7 | Process data axis slave device | 3 Bit 32..39 |
| Byte 85 | 0..7 | Process data axis slave device | 3 Bit 40..47 |
| Byte 86 | 0..7 | Process data axis slave device | 3 Bit 48..55 |
| Byte 87 | 0..7 | Process data axis slave device | 3 Bit 56..63 |
| Byte 88 | 0..7 | Process data axis slave device | 3 Bit 64..71 |
| Byte 89 | 0..7 | Process data axis slave device | 3 Bit 72..79 |
| Byte 90 | 0..7 | Process data axis slave device | 3 Bit 80..87 |
| Byte 91 | 0..7 | Process data axis slave device | 3 Bit 88..95 |
| Byte 92 | 0..7 | Process data axis slave device | 4 Bit 0..7 |
| Byte 93 | 0..7 | Process data axis slave device | 4 Bit 8..15 |
| Byte 94 | 0..7 | Process data axis slave device | 4 Bit 16..23 |
| Byte 95 | 0..7 | Process data axis slave device | 4 Bit 24..31 |
| Byte 96 | 0..7 | Process data axis slave device | 4 Bit 32..39 |
| Byte 97 | 0..7 | Process data axis slave device | 4 Bit 40..47 |
| Byte 98 | 0..7 | Process data axis slave device | 4 Bit 48..55 |
| Byte 99 | 0..7 | Process data axis slave device | 4 Bit 56..63 |
| Byte 100 | 0..7 | Process data axis slave device | 4 Bit 64..71 |
| Byte 101 | 0..7 | Process data axis slave device | 4 Bit 72..79 |
| Byte 102 | 0..7 | Process data axis slave device | 4 Bit 80..87 |
| Byte 103 | 0..7 | Process data axis slave device | 4 Bit 88..95 |
| Byte 104 | 0..7 | Process data axis slave device | 5 Bit 0..7 |
| Byte 105 | 0..7 | Process data axis slave device | 5 Bit 8..15 |
| Byte 106 | 0..7 | Process data axis slave device | 5 Bit 16..23 |
| Byte 107 | 0..7 | Process data axis slave device | 5 Bit 24..31 |
| Byte 108 | 0..7 | Process data axis slave device | 5 Bit 32..39 |
| Byte 109 | 0..7 | Process data axis slave device | 5 Bit 40..47 |
| Byte 110 | 0..7 | Process data axis slave device | 5 Bit 48..55 |
| Byte 111 | 0..7 | Process data axis slave device | 5 Bit 56..63 |

Status Message Data

| Byte | Bit | Run Mode (2, 3, 4) | Error Case (A, F) |
|----------|------|--------------------------------|--------------------|
| Byte 112 | 0..7 | Process data axis slave device | 5 Bit 64..71 |
| Byte 113 | 0..7 | Process data axis slave device | 5 Bit 72..79 |
| Byte 114 | 0..7 | Process data axis slave device | 5 Bit 80..87 |
| Byte 115 | 0..7 | Process data axis slave device | 5 Bit 88..95 |
| Byte 116 | 0..7 | Process data axis slave device | 6 Bit 0..7 |
| Byte 117 | 0..7 | Process data axis slave device | 6 Bit 8..15 |
| Byte 118 | 0..7 | Process data axis slave device | 6 Bit 16..23 |
| Byte 119 | 0..7 | Process data axis slave device | 6 Bit 24..31 |
| Byte 120 | 0..7 | Process data axis slave device | 6 Bit 32..39 |
| Byte 121 | 0..7 | Process data axis slave device | 6 Bit 40..47 |
| Byte 122 | 0..7 | Process data axis slave device | 6 Bit 48..55 |
| Byte 123 | 0..7 | Process data axis slave device | 6 Bit 56..63 |
| Byte 124 | 0..7 | Process data axis slave device | 6 Bit 64..71 |
| Byte 125 | 0..7 | Process data axis slave device | 6 Bit 72..79 |
| Byte 126 | 0..7 | Process data axis slave device | 6 Bit 80..87 |
| Byte 127 | 0..7 | Process data axis slave device | 6 Bit 88..95 |

Following logic data Bit IDs are reserved for compatibility reasons and cannot be used (value is 0):

- Bit ID 32
- Bit ID 88
- Bit ID 144
- Bit ID 200
- Bit ID 256
- Bit ID 312
- Bit ID 368

About Kollmorgen

Kollmorgen is a leading provider of motion systems and components for machine builders. Through world-class knowledge in motion, industry-leading quality and deep expertise in linking and integrating standard and custom products, Kollmorgen delivers breakthrough solutions that are unmatched in performance, reliability and ease-of-use, giving machine builders an irrefutable marketplace advantage.

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