Status Message Data
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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Status Message Data

Contents

1 IMPORTANT NOTES ............................................................................................................. 4
2 OPERATING ........................................................................................................................ 4
3 CONFIGURATION .................................................................................................................. 5
  3.1 Settings backplane .......................................................................................................... 5
  3.2 Configuration status message data .................................................................................. 6
    3.2.1 Logic data .................................................................................................................... 6
    3.2.2 Process data ................................................................................................................ 6
4 FORMAT STATUS MESSAGE DATA ....................................................................................... 7
  4.1 Logic data ......................................................................................................................... 7
  4.2 Process data ..................................................................................................................... 7
1 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

2 Operating

On the backplane bus of KSM1x devices, one or two CAN standard messages which contains the status message data (logic and process data) can be sent.
3 Configuration

3.1 Settings Backplane

CAN-Baudrate Backplane 500 kBit/s

Settings “cycle time”:

<table>
<thead>
<tr>
<th>Cyclic</th>
<th>X * cycle time KSM compact device (X: 1 ... 255)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non cyclic</td>
<td>Every 500ms, or data change</td>
</tr>
</tbody>
</table>
3.2 Configuration Status Message Data

3.2.1 Logic Data

3.2.2 Process Data

Example: When 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
4 Format Status Message Data

4.1 Logic Data

<table>
<thead>
<tr>
<th>Byte</th>
<th>Bit</th>
<th>“Run” Mode (2, 3, 4)</th>
<th>Error Case (A, F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Byte 0</td>
<td>0...3</td>
<td>KSM Mode 1, 2, 3, 4, 5, 6 = FatalError, 7 = Alarm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0x1 (define)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5..7</td>
<td>Alive Counter (3 Bit)</td>
<td></td>
</tr>
<tr>
<td>Byte 1</td>
<td>0...7</td>
<td>Logic Data (Bit: 48..55)</td>
<td></td>
</tr>
<tr>
<td>Byte 2</td>
<td>0...7</td>
<td>Logic Data (Bit: 40..47)</td>
<td></td>
</tr>
<tr>
<td>Byte 3</td>
<td>0...7</td>
<td>Logic Data (Bit: 32..39)</td>
<td></td>
</tr>
<tr>
<td>Byte 4</td>
<td>0...7</td>
<td>Logic Data (Bit: 8..15)</td>
<td></td>
</tr>
<tr>
<td>Byte 5</td>
<td>0...7</td>
<td>Logic Data (Bit: 0..7)</td>
<td></td>
</tr>
<tr>
<td>Byte 6</td>
<td>0..6</td>
<td>Logic Data (Bit 24..30)</td>
<td>Error Code High Byte</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Byte 7</td>
<td>0..7</td>
<td>Logic Data (Bit: 16..23)</td>
<td>Error Code Low Byte</td>
</tr>
</tbody>
</table>

4.2 Process Data

Selectable process data (extended diagnostic data)

<table>
<thead>
<tr>
<th>Byte</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>BYTE 0</td>
<td>Process Data (Bit 56..63)</td>
</tr>
<tr>
<td>BYTE 1</td>
<td>Process Data (Bit 48..55)</td>
</tr>
<tr>
<td>BYTE 2</td>
<td>Process Data (Bit 40..47)</td>
</tr>
<tr>
<td>BYTE 3</td>
<td>Process Data (Bit 32..39)</td>
</tr>
<tr>
<td>BYTE 4</td>
<td>Process Data (Bit 24..31)</td>
</tr>
<tr>
<td>BYTE 5</td>
<td>Process Data (Bit 16..23)</td>
</tr>
<tr>
<td>BYTE 6</td>
<td>Process Data (Bit 8..15)</td>
</tr>
<tr>
<td>BYTE 7</td>
<td>Process Data (Bit 0..7)</td>
</tr>
</tbody>
</table>
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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