

# KMI15

Rotational speed sensor

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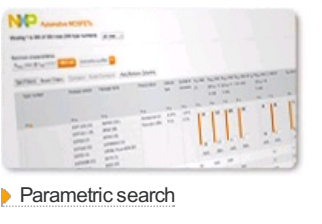
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The KMI15/4 sensor detects rotational speed of ferrous gear wheels and reference marks <sup>1</sup>.

The sensor consists of a magnetoresistive sensor element, a signal conditioning integrated circuit in bipolar technology and a ferrite magnet. The frequency of the digital current output signal is proportional to the rotational speed of a gear wheel.

<sup>1</sup> The sensor contains a customized integrated circuit. Usage in hydraulic brake systems and in systems with active brake control is forbidden. For all other applications, higher temperature versions of up to 150 Cel are available on request.



### Quick ordering

KMI15/1/V3PX

Region -- select your reg

Distributor In Stock

OR: [Order samples](#)

### Features and benefits

- Digital current output signal
- Zero speed capability
- Wide air gap
- Wide temperature range
- Vibration insensitive
- EMC resistant.

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[General product disclaimer](#)  
[Quality and reliability disclaimer](#)

### Parametrics of this product

| Type number | Package version |
|-------------|-----------------|
| KMI15       | SOT453B         |

### Similar products

- ▶ [Parametric search](#) all Rotational sensors
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### Package

| Type number | Package            | Outline version              | Reflow-/Wave soldering | Packing                    | Product status    | Marking          | Orderable part number, (Ordering code (12NC)) |
|-------------|--------------------|------------------------------|------------------------|----------------------------|-------------------|------------------|---|
| KMI15/1/V3P | <br>SIP2 (SOT453B) | ↓ <a href="#">sot453b_po</a> |                        | Reel Pack, SMD<br>7" Q1/T1 | Volume production | Standard Marking | KMI15/1/V3PX<br>( 9340 677 52115 )            |
| KMI15/2/V3P | <br>SIP2 (SOT453B) | ↓ <a href="#">sot453b_po</a> |                        | Reel Pack, SMD<br>7" Q1/T1 | Volume production | Standard Marking | KMI15/2/V3PX<br>( 9340 677 55115 )            |
| KMI15/4/V3P | <br>SIP2 (SOT453B) | ↓ <a href="#">sot453b_po</a> |                        | Reel Pack, SMD<br>7" Q1/T1 | Volume production | Standard Marking | KMI15/4/V3PX<br>( 9340 677 56115 )            |

The variants in the table below are discontinued. See the table [Discontinuation information](#) at the bottom of this page for more information.

| Type number | Package            | Outline version              | Reflow-/Wave soldering | Packing                    | Product status                             | Marking          | Orderable part number, (Ordering code (12NC)) |
|-------------|--------------------|------------------------------|------------------------|----------------------------|--|------------------|---|
| KMI15/1     | <br>SIP2 (SOT453B) | ↓ <a href="#">sot453b_po</a> |                        | Reel Pack, SMD<br>7" Q1/T1 | Discontinued<br><b>Replacement product</b> | KMI15/1          | KMI15/1,115<br>( 9340 507 80115 )             |
| KMI15/1/V3A | <br>SIP2 (SOT453B) | ↓ <a href="#">sot453b_po</a> |                        | Reel Pack, SMD<br>7" Q1/T1 | Withdrawn<br><b>Replacement</b>            | Standard Marking | KMI15/1/V3A,115<br>( 9340 670 05115 )         |

| Type number | Ordering code (12NC) | Last-time buy date | Last-time delivery date | Replacement product | DN Notice                 | Status             | Comments   |
|-------------|----------------------|--------------------|-------------------------|---------------------|---------------------------|--------------------|--|
| KM15/2      | 934050780115         | 31-Mar-13          | 30-Jun-13               | No replacement      | DN NXP-<br>DN_201206034DN | Version Withdrawal | Limited Availability. Sole Source. Production line of 4" is limited. Contact Marketing for Replacement Part. |
| KM15/2/V3A  | 934067005115         |                    |                         |                     | DN                        |                    |  |
| KM15/2      | 934050790115         | 31-Mar-13          | 30-Jun-13               | No replacement      | DN NXP-<br>DN_201206034DN | Version Withdrawal | Limited Availability. Sole Source. Production line of 4" is limited. Contact Marketing for Replacement Part. |
| KM15/2/V3A  | 934066994115         |                    |                         |                     | DN                        |                    |  |
| KM15/2B     | 934057132115         | 31-Mar-13          | 30-Jun-13               | No replacement      | DN NXP-<br>DN_201206034DN | Version Withdrawal | Limited Availability. Sole Source. Production line of 4" is limited. Contact Marketing for Replacement Part. |
| KM15/2B/V3A | 934066984115         |                    |                         |                     | DN                        |                    |  |
| KM15/4      | 934050800115         | 31-Mar-13          | 30-Jun-13               | No replacement      | DN NXP-<br>DN_201206034DN | Version Withdrawal | Limited Availability. Sole Source. Production line of 4" is limited. Contact Marketing for Replacement Part. |
| KM15/4/V3A  | 934067003115         |                    |                         |                     | DN                        |                    |  |

#### Discontinuation information

| Type number | Orderable part number | Chemical content | RoHS / RHF | Leadfree conversion date | EFR | IFR (FT) | MTBF (hour) | MSL | MSL LF |
|-------------|-----------------------|------------------|------------|--------------------------|-----|----------|-------------|-----|--------|
| KM15/1      | KM15/1,115            | KM15/1           |            | Always Pb-free           |     |          |             | 1   | NA     |
| KM15/1/V3A  | KM15/1/V3A,115        | Not available    |            | Always Pb-free           |     |          |             | 1   | 1      |
| KM15/2      | KM15/2,115            | KM15/2           |            | Always Pb-free           |     |          |             | 1   | NA     |
| KM15/2/V3A  | KM15/2/V3A,115        | Not available    |            | Always Pb-free           |     |          |             | 1   | 1      |

#### Quality, reliability & chemical content

The variants in the table below are discontinued. See the table [Discontinuation information](#) at the bottom of this page for more information.

| Type number | Orderable part number | Chemical content | RoHS / RHF | Leadfree conversion date | EFR | IFR (FT) | MTBF (hour) | MSL | MSL LF |
|-------------|-----------------------|------------------|------------|--------------------------|-----|----------|-------------|-----|--------|
| KM15/1      | KM15/1,115            | KM15/1           |            | Always Pb-free           |     |          |             | 1   | NA     |
| KM15/1/V3A  | KM15/1/V3A,115        | Not available    |            | Always Pb-free           |     |          |             | 1   | 1      |
| KM15/2      | KM15/2,115            | KM15/2           |            | Always Pb-free           |     |          |             | 1   | NA     |
| KM15/2/V3A  | KM15/2/V3A,115        | Not available    |            | Always Pb-free           |     |          |             | 1   | 1      |

The variants in the table below are discontinued. See the table [Discontinuation information](#) at the bottom of this page for more information.

| Type number | Orderable part number | Chemical content | RoHS / RHF | Leadfree conversion date | EFR | IFR (FT) | MTBF (hour) | MSL | MSL LF |
|-------------|-----------------------|------------------|------------|--------------------------|-----|----------|-------------|-----|--------|
| KM15/1      | KM15/1,115            | KM15/1           |            | Always Pb-free           |     |          |             | 1   | NA     |
| KM15/1/V3A  | KM15/1/V3A,115        | Not available    |            | Always Pb-free           |     |          |             | 1   | 1      |
| KM15/2      | KM15/2,115            | KM15/2           |            | Always Pb-free           |     |          |             | 1   | NA     |
| KM15/2/V3A  | KM15/2/V3A,115        | Not available    |            | Always Pb-free           |     |          |             | 1   | 1      |

|             |                 |               |   |                |  |  |   |    |
|-------------|-----------------|---------------|---|----------------|--|--|---|----|
| KM15/2B     | KM15/2B,115     | KM15/2B       |   | Always Pb-free |  |  | 1 | NA |
| KM15/2B/V3A | KM15/2B/V3A,115 | Not available |  | Always Pb-free |  |  | 1 | 1  |
| KM15/4      | KM15/4,115      | KM15/4        |  | Always Pb-free |  |  | 1 | NA |
| KM15/4/V3A  | KM15/4/V3A,115  | Not available |  | Always Pb-free |  |  | 1 | 1  |

► [Quality and reliability disclaimer](#)

### Discontinuation information

| Type number | Ordering code (12NC) | Last-time buy date | Last-time delivery date | Replacement product | DN Notice                 | Status             | Comments   |
|-------------|----------------------|--------------------|-------------------------|---------------------|---------------------------|--------------------|--|
| KM15/1      | 934050780115         | 31-Mar-13          | 30-Jun-13               | No replacement      | DN NXP-<br>DN_201206034DN | Version Withdrawal | Limited Availability. Sole Source. Production line of 4" is limited. Contact Marketing for Replacement Part. |
| KM15/1/V3A  | 934067005115         |                    |                         |                     | DN                        |                    |  |
| KM15/2      | 934050790115         | 31-Mar-13          | 30-Jun-13               | No replacement      | DN NXP-<br>DN_201206034DN | Version Withdrawal | Limited Availability. Sole Source. Production line of 4" is limited. Contact Marketing for Replacement Part. |
| KM15/2/V3A  | 934066994115         |                    |                         |                     | DN                        |                    |  |
| KM15/2B     | 934057132115         | 31-Mar-13          | 30-Jun-13               | No replacement      | DN NXP-<br>DN_201206034DN | Version Withdrawal | Limited Availability. Sole Source. Production line of 4" is limited. Contact Marketing for Replacement Part. |
| KM15/2B/V3A | 934066984115         |                    |                         |                     | DN                        |                    |  |
| KM15/4      | 934050800115         | 31-Mar-13          | 30-Jun-13               | No replacement      | DN NXP-<br>DN_201206034DN | Version Withdrawal | Limited Availability. Sole Source. Production line of 4" is limited. Contact Marketing for Replacement Part. |
| KM15/4/V3A  | 934067003115         |                    |                         |                     | DN                        |                    |  |

### Documentation for this product

[Download all documentation \(zip\)](#)

| File name                  | Title  | Type             | Format | Date       |
|----------------------------|--|------------------|--------|------------|
| <a href="#">AN98087</a>    | Rotational speed sensors KM15/16   | Application note | pdf    | 1999-01-11 |
| <a href="#">KM15_1</a>     | Data sheet addendum - SOT453B - Integrated rotational speed sensor   | Other type       | pdf    | 2000-09-05 |
| <a href="#">KM15_2</a>     | Data sheet addendum - SOT453A - Integrated rotational speed sensor   | Other type       | pdf    | 2000-09-05 |
| <a href="#">sot453b_po</a> | plastic single-ended multi-chip package; magnetized ferrite magnet (8 x 8 x 4.5 mm); 4 interconnections; 2 in-line leads | Outline drawing  | pdf    | 2009-10-08 |

### Ordering & availability

| Type number | Ordering code (12NC) | Orderable part number | Region | Distributor | In stock | Order quantity | Inventory date | Buy online | Samples                       |
|-------------|----------------------|-----------------------|--------|-------------|----------|----------------|----------------|------------|-------------------------------|
| KM15/1/V3P  | 9340 677 52115       | KM15/1/V3PX           |        |             |          |                |                |            | <a href="#">Order samples</a> |
| KM15/2/V3P  | 9340 677 55115       | KM15/2/V3PX           |        |             |          |                |                |            | <a href="#">Order samples</a> |
| KM15/4/V3P  | 9340 677 56115       | KM15/4/V3PX           |        |             |          |                |                |            | <a href="#">Order samples</a> |

**Sample**  
Sample orders normally take 2-4 days for delivery.  
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