Datasheet
Magnetic Field Sensor
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**General**

- Sensor for speed and direction query
- Customized housing
- Rectangular design (20 x 24 x 8.5 mm)
- Evaluation unit: VA smooth barrel, Ø 29 mm, length 50 mm
- Sensor is connected via a 0.4 m long FEP cable to the evaluation unit
- DC 4-wire, 10...30 VDC
- M12 x 1 male connector
- Configurable electrical outputs
- Configuration via IO-Link v1.1
- Built-in temperature sensor

**Technical Data**

<table>
<thead>
<tr>
<th>Type code</th>
<th>BIM-AWH-0,4-EH29-IOL6X3-H1141</th>
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<tbody>
<tr>
<td>Ident no.</td>
<td>1074020</td>
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**Product remarks**
The count range is 20–1800 pulses per minute; the measuring range is +/-50 mT. The sensor can be stored at -20...+150 °C for one hour, the evaluation unit at -20...+100 °C.

**Ambient temperature**
-20...+70 °C

**Operating voltage**
10...30 VDC
- DC rated operational current
  - ≤ 200 mA
- No-load current I₀
  - ≤ 40 mA
- Residual current
  - ≤ 0.1 mA
- Rated insulation voltage
  - ≤ 0.5 kV
- Short-circuit protection
  - yes
- Voltage drop at Iₑ
  - ≤ 2.3 V
- Wire breakage / reverse polarity protection
  - yes/ complete
- Output function
  - 4-wire, programmable
  - Switching output or IO-Link mode
  - Switching output

**Construction**
- rectangular
- Dimensions
  - 24 x 8.5 x 20 mm
- Housing material
  - Plastic, PA
- Active area material
  - Plastic, PA46-GF30
- Connection
  - Flange connector, M12 x 1
- Cable quality
  - 2.95 mm, White, FEP, FEP m
- Cable cross section
  - 5 x 0.14 mm²
- Vibration resistance
  - 55 Hz (1 mm)
- Shock resistance
  - 30 g (11 ms)
- Protection class
  - IP67
- MTTF
  - 417 years acc. to SN 29500 (Ed. 99) 40 °C

**Power-on indication**
- LED, green
- Switching state
  - 2 x LED, yellow / red
Detects the speed of mixing heads of magnetically coupled mixers through the container wall with integrated direction detection.

The sensor unit contains 2 Hall sensors and a temperature sensor.

The status of the sensor is indicated via 3 LEDs.
Green (GN) = Operation
Yellow (YE) = Impulse
Red (RD) = Alarm

Mixing head installed and wrong direction of rotation:
Alarm output + red LED on, pulse output + yellow LED off

Mixing head installed and right direction of rotation:
Alarm output + red LED off, pulse output + yellow LED 1 x per revolution on