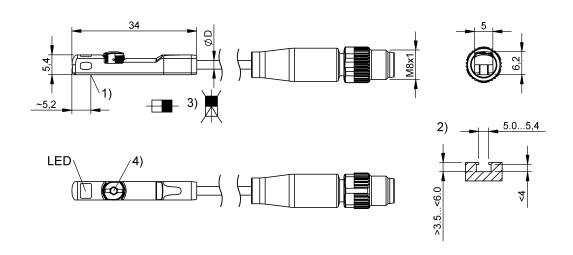
BMF 415KW-HAKKI-W-5-P3-S75-00,3

Order Code: BMF00MU





1) Position sensor element, 2) see remarks, 3) see remarks, 4) see remarks











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Application	Pneumatic cylinder with T-slot
	For dimensions, see sketch in
	1 ()

product view. Welding area

Approval/Conformity

CE UKCA cULus WEEE

Basic standard
Principle of operation
Scope of delivery

IEC 60947-5-2 Magnetic field sensor Position sensor Protective cover Cable clip for T-slot

Display/Operation

Function indicator

Active, LED yellow Error, LED red

Short guide

Power indicator

Internet

External Power - LED green

Electrical connection

Cable TPI	J welding	spark resistant
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Orange, 300 mm

Cable diameter D 3.2 mm

Conductor cross-section 0.10 mm²

Connection M8x1-Male, 4-pin, A-coded

 Number of conductors
 4

 Polarity reversal protected
 yes

 Protection against device mix-ups
 yes

 Short-circuit protection
 yes

Electrical data

Utilization category

Assured switching field strength Ha	5.2 kA/m
Interference suppression time	600 ms
Load capacitance max. at Ue	1.5 µF
No-load current lo max., undamped	18 mA
Operating voltage Ub	1830 VDC
Output resistance Ra	Open drain
Rated insulation voltage Ui	75 V DC
Rated operating current le	50 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Rated switch field strength Hn	4.8 kA/m
Residual current Ir max.	10 μΑ

DC -13

BMF 415KW-HAKKI-W-5-P3-S75-00,3 Order Code: BMF00MU



Environmental conditions

Ambient temperature 0...80 °C
Contamination scale 3

EN 60068-2-27, Shock Half-sinus, 30 g_n, 11 ms, 3x6 Half-sinus, 100 gn, 2 ms, 3x8000

EN 60068-2-6, Vibration 55 Hz, amplitude 2 mm, 3x30 min 10...2000 Hz, amplitude 2 mm pp,

30 g_n, 120 sweeps

 ESD
 2A (4 kV)

 Emission
 Group 1, Class A

IP rating IP67

Functional safety

MTTF (40 °C) 420 a

10-Link

IO-Link Profil IDs 0x0002 SSP1.1

0x4000 Identification and

Diagnosis

Interface

Baud rate38.4 kBaudInterfaceIO-Link 1.1

Switching output IO configurable NO/NC

Material

Size

Housing material PA 12

Material jacket TPU, welding spark resistant

Material sensing surface PA 12

Mechanical data

Dimension 5 x 6.4 x 34 mm

Mounting part can be installed in T-slot from

above T-slot

-

Remarks

Damping magnet axially magnetized

Effective operating current le with thermally coupled installation in metal.

Suitable for use in AC interference magnetic fields up to 140 mT / 110 kA/m with frequencies between 45 - 65 Hz

Suitable for use in MFDC interference magnetic fields up to 140 mT / 110 kA/m $\,$

UL-MARKINGS: - For use in NFPA 79 Applications only - Adapters providing field wiring means are available from the manufacturer. Refer to manufacturers information.

For more information about MTTF and B10d see MTTF / B10d Certificate

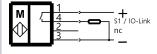
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Subject to change without notice: 295942

Connector Drawings

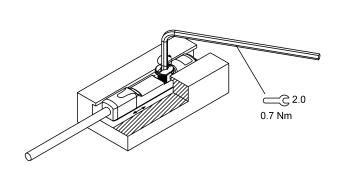


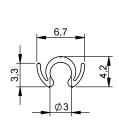
Wiring Diagrams (Schematic)

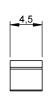


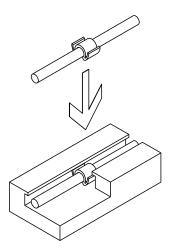
Help Views

Order Code: BMF00MU



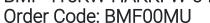


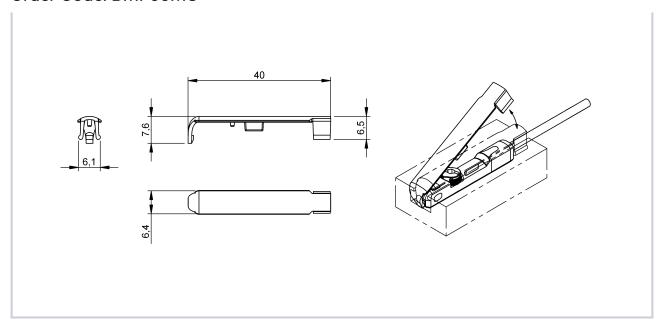




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BALLUFF





Warning Symbols



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