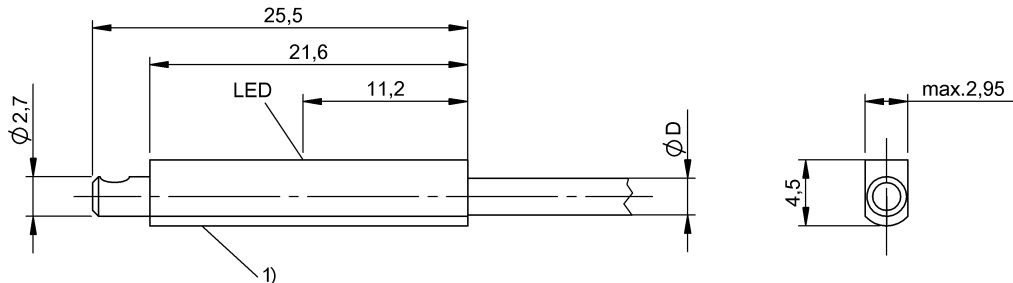


BMF 303K-PS-C-2A-PU-05 BMF003Y



1) Sensing surface



Display/Operation

Function indicator yes

Electrical connection

Cable diameter D 2.50 mm
Cable length 5 m
Conductor cross-section 0.10 mm²
Connection type Cable, 5.00 m, PUR
Number of conductors 3
Polarity reversal protected yes
Short-circuit protection yes

Electrical data

Assured switching field strength Ha 2 kA/m
Hysteresis H max. (% of Hn) 45 %
Load capacitance max. at Ue 1 µF
MTTF (40 °C) 744 a
No-load current I_o max., undamped 3.5 mA
Operating voltage U_b 10...30 VDC
Output resistance R_a Open drain
Pollution degree 3
Protected against miswiring yes
Rated insulation voltage U_i 75 V DC
Rated operating current I_e DC 100 mA
Rated operating voltage U_e DC 24 V
Rated short circuit current 100 A
Rated switch field strength H_n 1.2 kA/m
Residual current I_r max. 10 µA
Switching frequency 30000 Hz
Turn-off delay t_{off} max. 0.02 ms
Turn-on delay t_{on} max. 0.02 ms

Utilization category DC -13
Voltage drop static max. 1 V

Environmental conditions

Ambient temperature -25...85 °C
Protection type IEC 60529 IP67

Functional safety

Diagnostic coverage 0.0 %
Functional safety no
Mission Time 20 a

General data

Approval/Conformity cULus
CE
Basic standard IEC 60947-5-2
Not incl. in scope of delivery Mounting bracket, e.g. BMF
303-HW-28

Material

Housing material LCP
Material jacket PUR
Material sensing surface LCP

Mechanical data

Dimension 25.5 x 3 x 4.5 mm

Output/Interface

Switching output PNP Normally open (NO)

BMF 303K-PS-C-2A-PU-05 BMF003Y

Range/Distance

Ripple max. (% of Ue) 15 %

Remarks

The sensor is functional again after the overload has been eliminated.
Switching frequency f max.: Measured at 50 % duty cycle and 20 % Ie
Max. pull force on cable 10 N.

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Wiring Diagram

