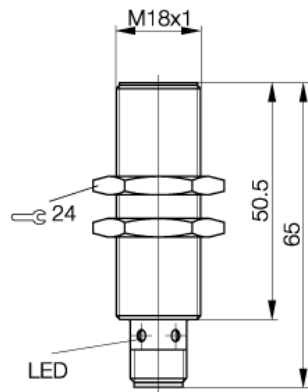


**BAW M18MI-IAC50B-S04G**  
Inductive Distance Sensors

1...5 mm  
0...20 mA



PX1356

**Electrical data:**

|                                          |           |
|------------------------------------------|-----------|
| Connection                               | connector |
| Rated operational voltage DC             | 24 V      |
| Rated insulation voltage (Ui)            | 250 AC    |
| Electrical type                          | DC        |
| Supply voltage ripple                    | 15 %      |
| Switching element function               | 0...20 mA |
| Supply voltage max. (Ub)                 | 30 V      |
| Supply voltage min. (Ub)                 | 10 V      |
| Output current at se                     | 10 mA     |
| Output current at sl max                 | 20,0 mA   |
| Output current at sl min                 | 0,0 mA    |
| Cutoff frequency (-3dB output amplitude) | 500 Hz    |
| Load resistance max (RI)                 | 500 Ohm   |
| Temperature compensation                 | no        |
| Linear range max (sl)                    | 5 mm      |
| Linear range min (sl)                    | 1 mm      |
| Non-linearity                            | ±120 µm   |
| Output signal                            | 0...20 mA |

**General data:**

|                             |                 |
|-----------------------------|-----------------|
| Supply voltage indicator    | no              |
| Degree of protection IP     | IP 67           |
| Insulation class            | 2               |
| Recommended connector       | BKS-_19/BKS-_20 |
| Polarity reversal resistant | yes             |
| Protected against reversal  | yes             |

**Mechanical data:**

|                                 |                 |
|---------------------------------|-----------------|
| Midpoint of linear range (se)   | 3 mm            |
| Connection type                 | M12x1-S04       |
| Mounting                        | flush mountable |
| Surface treatment               | nickel plated   |
| Ambient temperature max (Ta)    | 70 °C           |
| Ambient temperature min (Ta)    | -10 °C          |
| Sensing face material           | PBT             |
| Housing material                | CuZn            |
| Repeatability                   | 3 %             |
| Working area max (sa)           | 5 mm            |
| Working area min (sa)           | 1 mm            |
| Time delay before available max | 1 ms            |
| Measurement velocity            | 40 m/s          |
| Opt. working temperature max.   | 50 °C           |
| Opt. working temperature min.   | 10 °C           |
| Temperature coefficient max.    | -5,0 µm/K       |
| Temperature coefficient min.    | 1,0 µm/K        |
| Temperature coefficient typ.    | -1,0 µm/K       |
| Repeat accuracy                 | ±8,0 µm         |
| Adjustment indicator            | yes             |
| Working range                   | 1...5 mm        |

**Wiring:**



**Pinout:**

