

Inductive proximity switches are contact-free sensors. They detect all conductive metals, regardless of whether they move or not. The achievable sensing range of the devices depends on the object material and its dimensions. The vibration-resistant sensors can be approached laterally or frontally. Inductive proximity switches are used for presence detection (e.g. goods carriers), positioning (e.g. dampers), counting (e.g. nuts /bolts), speed detection (e.g. for cog wheels), on conveyor systems (e.g. hose feedings) or distance measurements (e.g. press-in checking) of metallic objects.

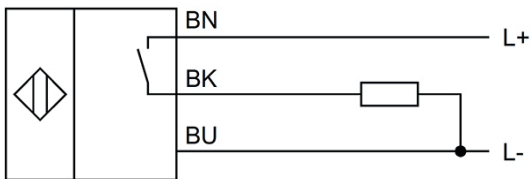

**TECHNICAL DATA**

|   |                        |
|---|------------------------|
| Devices for hose mounting                                     | NO                     |
| Feeding technology  | NO                     |
| Hygienic and wet area   | NO                     |
| Metallic sensor surface                                       | NO                     |
| Oil and lubricating coolants                                  | NO                     |
| Ring-shaped sensors   | NO                     |
| Rough ambient conditions                                      | NO                     |
| Welding proof sensors   | NO                     |
| Ambient temperature (min/max)                                 | 0°C / 150°C            |
| Ambient temperatures > -25°C                                  | NO                     |
| Cable length  | 2m                     |
| Compression-resistant   | NO                     |
| Construction type housing                                     | Cylinder, screw-thread |
| Core cross section  | 0.22mm <sup>2</sup>    |
| Degree of protection (IP)                                     | IP50                   |
| High-pressure resistant sensors                               | NO                     |
| Increased ambient temperatures > 80°C                         | YES                    |
| Length of sensor  | 56mm                   |
| Material active area of sensor                                | Vectra®                |
| Material housing  | Metal                  |
| Material housing  | Stainless steel 1.4305 |
| Material independent sensors (factor 1)                       | NO                     |
| Material of cable sheath                                      | PTFE                   |
| Mechanical mounting condition for sensor                      | Concise                |
| Number of cores   | 3                      |
| Pitch thread  | 1mm                    |
| Sensors unaffected by atmospheric changes (temperature cycle) | NO                     |
| Teflon housing  | NO                     |
| Thread length   | 48mm                   |
| Thread size metric (M..)                                      | 12                     |
| Cascadable  | NO                     |

**TECHNICAL DATA**

|   |                       |
|---|-----------------------|
| Connection to an amplifier                            | NO                    |
| Correction factor (aluminium)                         | 0.3                   |
| Correction factor (brass)                             | 0.4                   |
| Correction factor (copper)                            | 0.2                   |
| Correction factor (stainless steel)                   | 0.7                   |
| Correction factor (steel)                             | 1                     |
| Distance measuring sensors                            | NO                    |
| Double sensing range                                  | NO                    |
| Hysteresis  | 15%                   |
| Increased sensing range                               | NO                    |
| Max. output current                                   | 120mA                 |
| No load current                                       | 15mA                  |
| Norm trimming plate                                   | 12x12x1               |
| Quadruple sensing range                               | NO                    |
| Rated control supply voltage $U_s$ at DC (min/max)    | 10V / 35V             |
| Relative repeat accuracy                              | 3%                    |
| Residual ripple                                       | 10%                   |
| Response time   | 1ms                   |
| Reverse polarity protection                           | YES                   |
| Short-circuit-proof                                   | YES                   |
| Standby delay   | 80ms                  |
| Suited for safety functions                           | NO                    |
| Supply voltage (min/max)                              | 10V / 35V             |
| Switching distance                                    | 3mm                   |
| Switching frequency                                   | 500Hz                 |
| Triple sensing range                                  | NO                    |
| Type of electric connection                           | Cable                 |
| Type of switch function                               | Normally open contact |
| Type of switching output                              | PNP                   |
| Voltage drop  | 2V                    |
| Voltage type  | DC                    |
| With LED indication                                   | NO                    |
| With monitoring function downstream switching devices | NO                    |
| Areas inquiry   | NO                    |
| End position inquiry hydraulic cylinder               | NO                    |
| Welding areas   | NO                    |

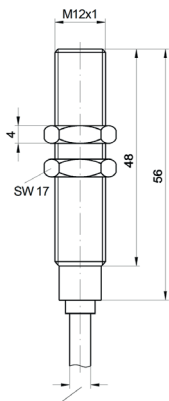
## CONNECTION



**Colors:** BN (brown), BU (blue), BK (black)

**Functions:** BN = L+, BU = L-, BK = PNP NO

## DIMENSIONAL DRAWING



## ADDITIONAL INFORMATION

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