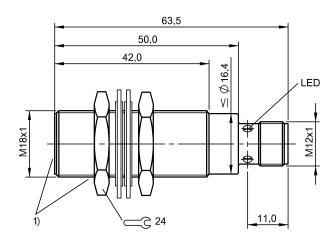
# BES M18EG1-NSC10Z-S04G-S11

**Order Code: BES02Y2** 





## 1) Pressure resistant area







### **Basic features**

Approval/Conformity	CE	
	cULus	
	WEEE	
Basic standard	IEC 60947-5-2	

# Display/Operation

Function indicator	yes
Power indicator	no

### **Flectrical connection**

Electrical confilection		
Connection	M12x1-Male, 4-pin, A-coded	
Polarity reversal protected	yes	
Protection against device mix-ups	yes	
Short-circuit protection	yes	

### **Electrical data**

Load capacitance max. at Ue	1 μF
Min. operating current Im	0 mA
No-load current lo max., damped	16 mA
No-load current lo max., undamped	9 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	47.0 kOhm
Rated insulation voltage Ui	75 V DC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	35 ms
Residual current Ir max.	100 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	200 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

### **Environmental conditions**

Ambient temperature	-2570 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67
Functional safety	

375 a

MTTF (40 °C)

### **Inductive Sensors**

# BES M18EG1-NSC10Z-S04G-S11 Order Code: BES02Y2



10 %

±10 %

### **Interface**

Switching output NPN normally open (NO)

#### Material

Housing material Stainless steel

Material sensing surface Stainless steel

### Mechanical data

Pressure rating max. 60 bar

Pressure rating, note Pressure-resistant

 $\begin{array}{lll} \textbf{Size} & \textbf{M18x1} \\ \textbf{Tightening torque} & 50 \ \text{Nm} \pm 10 \ \% \\ \end{array}$ 

### Range/Distance

Assured operating distance Sa Hysteresis H max. (% of Sr) Rated operating distance Sn Real switching distance sr Repeat accuracy max. (% of Sr) Switching distance marking Temperature drift max. (% of Sr) Tolerance Sr 8.1 mm 15.0 % 10 mm 10 mm 5.0 %

#### Remarks

The sensor is functional again after the overload has been eliminated.

When installing in metals the switching distance may be reduced by up to 50%. Installation Instructions 841020.

LED flashes between 100% and approx. 70% of Sr

Installation permitted only in clamp without positive stop.

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.

# **Connector Drawings**



# **Wiring Diagrams**

