



1) Housing rotatable 304°, 2) Tightening torque 1...1.5 Nm, 3) Tightening torque 16.5 Nm



LISTED  
 IND.CONT.EQ  
 81U2



### Basic features

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IEC 60947-5-2
Scope of delivery	O-ring Ø17.13x2.62 Allen wrench UNC 1/4"- 20x3/4"- 12.9 (2x)
Trademark	Strokemaster

### Display/Operation

Function indicator	yes
Power indicator	yes

### Electrical connection

Connection	7/8"-16 UN-Male
Polarity reversal protected	yes
Short-circuit protection	yes

### Electrical data

Magnetic field strength, interference field	100 kA/m
Min. operating current $I_m$	5 mA
Operating voltage $U_b$	20...250 VDC/20...250 VAC
Protection class	I
Rated insulation voltage $U_i$	250 V AC
Rated operating current $I_e$	500 mA
Rated operating voltage $U_e$ AC	110 V
Rated short circuit current	100 A
Ready delay $t_v$ max.	150 ms
Residual current $I_r$ max.	1700 $\mu$ A
Switching frequency	50 Hz
Utilization category	AC-140 DC -13
Voltage drop static max.	6 V

Inductive Sensors  
**BES 516-200-S2/1.025"-S5**  
**Order Code: BHS0006**



**Environmental conditions**

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
Magnetic field immune	magnetic field immune (AC/DC)
Protection degree	IP67

**Material**

Gasket, material	FPM 90
Housing material	Stainless steel (1.4104) Zinc, Die casting
Material sensing surface	Ceramic
Surface protection	nickel plated

**Mechanical data**

Dimension	64.2 x 48 x 26.04 mm
Length, tolerance	±0.05 mm
Pressure rating max.	207 bar
Pressure rating, note	oil pressure rated
Sealing ring, part number	116143
Sealing ring, size	17.13 x 2.62 mm
Size	D12.7

**Output/Interface**

Switching output	Normally open (NO)
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**Range/Distance**

Assured operating distance Sa	1.6 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	2 mm
Real switching distance sr	2 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

**Remarks**

Leakage current Ir max. at rated operating voltage Ue AC 110 V  
 LED 1: Operating voltage  
 LED 2: Function  
 Flashing LED indicates overload. Once the overload has been eliminated, interrupt operating voltage Vs for approx. 2 sec.  
 UL note:  
 Listed connectors for installation are available at [www.balluff.com](http://www.balluff.com).  
 The product should be connected using a Category CYJV/7 cable having min. 95°C temperature resistance.

**Connector Drawings**



**Wiring Diagrams**

