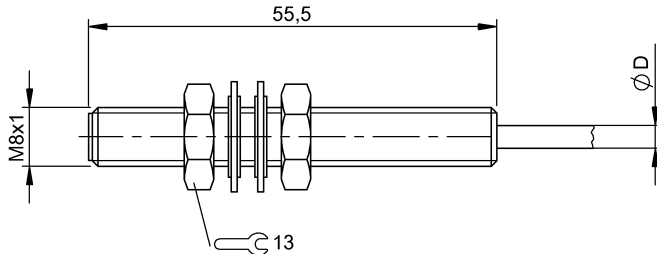


BES 516-324-SA26-02 BES02HK



IND. CONT. EQ
81U2
US for use in the secondary of
a class 2 source of supply
Environmental - Type 1 Enclosure



Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

Cable diameter D	3.30 mm
Cable length	2 m
Conductor cross-section	0.14 mm ²
Connection type	Cable, 2.00 m, PTFE
Number of conductors	3
Polarity reversal protected	yes
Short-circuit protection	no

Electrical data

Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at U _e	1 µF
MTTF (40 °C)	595 a
No-load current I _o max., undamped	12 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	4.7 kOhm + D
Pollution degree	3
Protected against miswiring	no
Rated insulation voltage U _i	75 V DC
Rated operating current I _e DC	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	10 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I _r max.	80 µA
Switching frequency	1500 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

Environmental conditions

Ambient temperature	-25...120 °C
Protection type IEC 60529	IP67 Cable exit IP60

Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	20 a

General data

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

Material

Housing material	Stainless steel
Material jacket	PTFE
Material sensing surface	PBT

Mechanical data

Dimension	Ø 8 x 55.5 mm
Installation	for flush mounting
Size	M8x1
Tightening torque	5 Nm

Output/Interface

Switching output	PNP Normally open (NO)
------------------	------------------------

BES 516-324-SA26-02 BES02HK

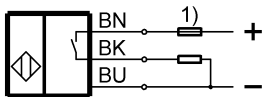
Range/Distance

Assured operating distance Sa	1.6 mm
Range	2 mm
Rated operating distance Sn	2 mm
Ripple max. (% of Ue)	10 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %

Remarks

$T_a \geq 70\text{ °C} \dots \leq 120\text{ °C}$: $I_e \leq 150\text{ mA}$.
 Recommendation: After a short circuit check the device for proper function.
 Shielded: See installation instructions for inductive sensors with extended range 825357.
 EMC: Surge resistance
 External protection circuit is required. Document 825345, Section 2.
 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



1) For SCP see electrical data