



1) Reference edge, 2) Sensing surface, 3) Function indicator FD/FE/LL, 4) Plastic, 5) Cable passage, 6) Sealing ring



Basic features

Additional features	Special switch
Approval/Conformity	CE UKCA WEEE
Basic standard	IEC 60947-5-2
DIN switch	DIN 43697
Operating principle	1-5. Switch position: Inductive
Version	Inductive

Display/Operation

Function indicator	1-5. Switch position: Optical fiber
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Electrical connection

Connection type	1-5. Switch position: Screw terminal
Electrical version	3-/4-wire

Electrical data

Continuous current	1-5. Switch position: 0.2 A
Rated operating voltage Ue	1-5. Switch position: 24 V DC

Environmental conditions

Ambient temperature	0...60 °C
IP rating	IP67

Functional safety

MTTF (40 °C)	BES 517-100-S42: 230 a BES 517-100-S43: 230 a BES 517-100-S44: 230 a
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Interface

Switching output	PNP complementary
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Material

Housing material	Aluminium, Anodized
Housing material, surface protection	Anodized

Mechanical data

Distance cam - active surface	1-5. Switch position: 0...4.05 mm
Flange, feed-through	2 threaded exit M25
Installation	Vertical
Switching element	1. Switch position: BES 517-100-S42 2. Switch position: BES 517-100-S43 3. Switch position: BES 517-100-S44 4. Switch position: BES 517-100-S42 5. Switch position: BES 517-100-S43

Mechanical Cam Switches
BNS 816-X603-B05-00-12-602-11
Order Code: BNS042C

BALLUFF

Range/Distance

Assured operating distance Sa 1-5. Switch position: 3.2 mm

Range

4 mm

Rated operating distance Sn

1-5. Switch position: 4 mm

Remarks

Mutual interference of the switching function BES 517-100-S42

BES 517-100-S43

BES 517-100-S44 excluded due to different oscillator frequencies.

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 do not extend the limitation period for claims arising from defects or influence them in any other way.

We call you attention to the fact that the product listed here alone are not considered safety components according to Machine Directive 2006/42/EC Article 2c. It is however possible to construct structures per EN 13849-1 having a high performance level using the products with two channels.

Wiring Diagrams

