

BT-X100-S — Inductive Proximity Switch M12

Bertsch-Tech GmbH | Product Series: BT-X100
Article No.: BT-X100-S | EAN: 4012345678901

Overview

The BT-X100-S is a cylindrical inductive proximity switch in the standard M12 form factor. Designed for reliable detection of metallic targets in industrial automation environments. The unshielded design allows flush mounting in metal brackets while maintaining the rated switching distance.

Key Features

- Cylindrical M12 stainless steel housing (silver finish)
 - Unshielded (flush-mountable) construction
 - Normally Open (NO) switching output
 - Solid-state PNP transistor output
 - LED status indicator (yellow)
 - Reverse polarity protection and short-circuit proof
 - Weld-field resistant
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Technical Specifications

Electrical

Parameter	Value
Voltage type (EF000187)	DC
Rated control supply voltage DC (EF003980)	10 ... 30 V DC
Max. output current at protected output (EF004035)	200 mA
Type of switching output (EF003962)	PNP, NO
Switching frequency (EF003587)	1500 Hz
No-load supply current	≤ 12 mA
Voltage drop (at rated current)	≤ 2.5 V

Sensing

Parameter	Value
Switching distance (EF003647)	4 mm
Mechanical mounting condition for sensor (EF004041)	Unshielded (non-flush)
Type of actuation (EF006949)	Inductive
Reduction factor for stainless steel	0.9
Reduction factor for aluminium	0.4
Reduction factor for copper	0.3

Mechanical

Parameter	Value
Construction type housing (EF004008)	Cylindrical
Diameter sensor (EF007111)	12 mm
Length of sensor (EF007334)	60 mm
Housing material (EF001596)	Stainless steel (V2A)
Type of electric connection (EF003961)	4-pin M12 connector, male
Degree of protection	IP67 (IEC 60529)

Wiring

Pin 1 – Supply voltage + (BN)
Pin 3 – Supply voltage – (BU)
Pin 4 – Switching output (BK)

Approvals & Standards

- CE marking (EMC Directive, Low Voltage Directive)
 - UL listed
 - RoHS compliant
 - EN 60947-5-2
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Ordering Information

Article No.	Description
BT-X100-S	M12 inductive proximity switch, 4 mm, PNP NO, DC, M12 connector, stainless steel
BT-X100-S-C	As above, with 2 m PVC cable

Bertsch-Tech GmbH – Automation & Sensing Division
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