

Honeywell



Representative photograph, actual product appearance may vary.

Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.

BX4D3K

Series BX Non Plug-in: Top Roller Plunger; 1NC 1NO SPDT Snap Action; 20 mm

Features

- UL, CSA and European approvals
- Sealing - applicable portions of IP67 and NEMA 1, 3, 4, 6, 7, 9, and 13
- Diverse conduit selection for wide range of applications
- Compatible with LSX
- Tracking interchangeability with MICRO SWITCH ML-E1 and HDLS
- Variety of heads and non-sparking actuators
- 10 A continuous carry electrical rating
- Choice of silver or gold contacts
- Internal grounding screw

Typical Applications

- Control valves and actuators
- Offshore drilling
- Grain elevators
- Petrochemical plants
- Chemical plants
- Waste treatment
- Paint booths
- Mining conveyors
- Pulp and paper coating
- Hazardous waste handling

Description

Honeywell explosion proof switches are designed specifically for use in hazardous location applications. The BX enclosure is sealed for protection against corrosion, water, dust and oil as defined in NEMA 1, 3, 4, 6, 7, 9 and 13 and IP67 as defined in IEC 529. These enclosures also meet the European Hazardous Locations Designation: EExd IIC T6 category II 2 GD, SIRA 00ATEX 1037X. The entire series BX complies with the European Directive on Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres (94/9/EC) commonly referred to as the ATEX Directive. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN50014 1997 and EN50018 1994. BX with conduit types 1/2-14NPT, 3/4-14NPT also meet the North American Hazardous Locations Designation: Class I, Groups B, C and D; Class II, Groups E, F and G and comply with UL Standard: UL 894, CSA Standard: C22.2 No. 25-1966, C22.2 No. 30-M1986. The BX is ideal for outdoor use or in adverse environments where a combination of explosion proof plus sealing requirements are needed. To comply with explosion

proof requirements the BX has flame paths within the housing, which cool exploding gases below the ignition temperature before they reach explosive gases surrounding the housing. Flame paths on the BX are (1) an extended plunger between the switch cavity and head and (2) the cover-housing threads on the front of the switch.



BX4D3K

Series BX Non Plug-in: Top Roller Plunger; 1NC 1NO SPDT Snap Action; 20 mm

Product Specifications	
Availability	Global
Operating Force (O.F.)	0,45 N max. [4 in lb max.]
Pretravel (P.T.)	1,78 mm max. [0.070 in max.]
Overtravel (O.T.)	4,83 mm min. [0.190 in min.]
Differential Travel (D.T.)	0,38 mm max. [0.015 in max.]
Product Type	Weather-Sealed, Explosion-Proof Limit Switches/European Approvals
Actuator	Top Roller Plunger
Circuitry	1NC 1NO Single-Pole Double-Throw, Snap-Action, Double-Break
Ampere Rating	10 A (Thermal)
Supply Voltage	600 Vac and 250 Vdc max.
Housing Material	Zinc Die-Cast
Termination Type	20 mm conduit
Housing Type	BX Non Plug-in
Series Name	BX Series
Sealing	IP67, NEMA 1, 3, 4, 6, 16
Approvals	CE Certified
Operating Temperature Range	-40 °C to 70 °C (-40 °F to 158 °F)
Comment	Head can be assembled at 90 degree increments for cam or slide actuation
Agency Approvals and Standards	EExd IIC T6 category II 2 GD, SIRA 00ATEX 1037X
Sealed	Explosion-proof
Operating Position (O.P.)	68,6 ± 1,0 mm [2.700 ± 0.040 in]


Honeywell

BX4D3K

Series BX Non Plug-in: Top Roller Plunger; 1NC 1NO SPDT Snap Action; 20 mm

WARNING

IF USED IN APPLICATIONS CONCERNING HUMAN SAFETY

- Only use NC direct opening ("positive opening"/"positive break") contacts, identified by the symbol  .
- Do NOT use flexible/adjustable actuators. Only use actuators designed for safety applications
- Do NOT defeat, tamper, remove, or bypass this switch.
- Hazardous voltage, disconnect power before servicing.
- Strictly adhere to all installation and maintenance instructions.
- Consult with local safety agencies and their requirements when designing a machine-control link, interface and all control elements that affect safety

Failure to comply with these instructions could result in death or serious injury.

WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

© Copyright Honeywell Inc. 1998-2006 All rights reserved.