

RKC4T-15/TXL & BIM-PST-AN6X TURCK 30VDC 15m Sensor Kit Datasheet



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Category: Sensors, Test & Measurement

Price: \$168.57

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Product Description

TURCK RKC4T-15/TXL and BIM-PST-AN6X feature a 23 x 14 x 16 mm physical footprint, a 10 to 30 VDC nominal voltage, and a 1 kHz switching frequency with a 15 m cable length. The sensor utilizes a magnetic-inductive mechanism housed in a PA12-GF30 plastic enclosure, delivering a 3-wire NPN Normally Open output. The accompanying connection cable features an M12 straight 3-pin female connector with gold-plated brass contacts, rated for 250 V and 4 A, and is protected by a halogen-free PUR jacket capable of withstanding drag chain environments.

RKC4T-15/TXL and BIM-PST-AN6X Specifications

Model Number: RKC4T-15/TXL (6626841) and BIM-PST-AN6X

Brand: TURCK

Product Category: Magnetic Field Sensor and Actuator Cable Kit

Sensor Operating Voltage: 10 to 30 VDC

Sensor Rated Operating Current: ≤ 200 mA

Sensor No-Load Current: ≤ 15 mA

Sensor Residual Current: ≤ 0.1 mA

Sensor Isolation Test Voltage: 0.5 kV

Sensor Voltage Drop: ≤ 1.8 V

Sensor Output Function: 3-wire, NPN, Normally Open (NO)

Sensor Switching Frequency: 1 kHz

Sensor Dimensions: 23 x 14 x 16 mm
Sensor Housing Material: Plastic, PA12-GF30
Sensor Active Area Material: Plastic, PA12-GF30
Sensor Connection: 4 m Cable (3 x 0.25 mm²)
Sensor Operating Temperature: -25 to 70 °C
Sensor Vibration Resistance: 55 Hz (1 mm)
Cable Connector Type: M12 x 1 Female, Straight, A-Coded, 3-Pin
Cable Contacts: Brass, CuZn, Gold-Plated
Cable Coupling Nut: Brass, CuZn, Nickel-Plated
Cable Length: 15 m
Cable Diameter: 4.1 mm ± 0.20 mm
Cable Jacket Material: PUR, Black
Cable Core Cross-Section: 3 x 0.34 mm²
Cable Rated Voltage: 250 V
Cable Test Voltage: 2000 V
Cable Current Rating: 4 A
Cable Insulation Resistance: > 30.5 MΩ/km
Cable Forward Resistance: Max 57 Ω/km
Cable Bending Radius (Stationary): ≥ 5 x Ø
Cable Bending Radius (Flexible): ≥ 10 x Ø
Cable Bending Cycles: ≥ 5 Million
Cable Operating Temperature (Stationary): -50 to 80 °C
Cable Operating Temperature (Moving): -25 to 80 °C
Ingress Protection: IP67 (Sensor), IP67 / IP69K (Cable)

RKC4T-15/TXL and BIM-PST-AN6X Applications

Primary applications include integration into pneumatic cylinder position monitoring systems, automated robotic arms, and CNC machining centers. Deployed within high-speed packaging machinery and material handling conveyors requiring precise magnetic-inductive piston detection and robust PUR cable routing through drag chains.

Supplemental Images

