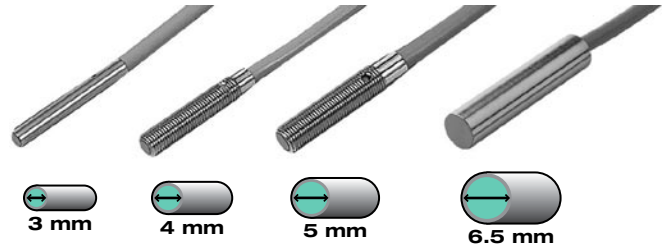


3- and 4-Wire DC 3 to 6.5 mm Diameter Inductive Sensors

- 0.6 to 2 mm sensing ranges
- Smooth or threaded barrels
- LED target indication
- Cable and Nano (M8) quick disconnect models



Technical Specifications

SUPPLY VOLTAGE	NBB/NBN/NJ Models	10-30 VDC
	NJ1.5-6.5... Models	10-60 VDC
LOAD CURRENT (I_L)		100 mA max.
LEAKAGE CURRENT (OFF-STATE)	NBB/NBN/NJ Models	≤ 0.1 mA
	NJ1.5-6.5... Models	≤ 0.5 mA
OUTPUT	Suffix E, E0	NPN normally open
	Suffix E2	PNP normally open
VOLTAGE DROP AT I_L (MAX.)		≤ 3 VDC
HYSTERESIS		3-15% (5% typical)
SHORT CIRCUIT AND OVERLOAD PROTECTION		Yes
REVERSE POLARITY PROTECTED		Yes
LED INDICATION		See dimension drawings
SENSING FACE MATERIAL		PBT
STANDARDS		EN 60947-5-2
ENVIRONMENTAL PROTECTION		IP67
AMBIENT TEMPERATURE		-14°F to +158°F (-25°C to +70°C)
APPROVALS		



See pages
827-874 for
cordsets

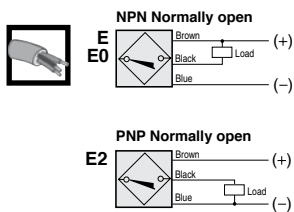


See pages
885-892 for
accessories

Wiring Diagrams

3-Wire DC

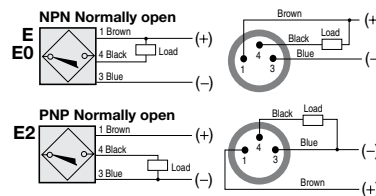
Cable Connection



Quick Disconnect

Note: Wiring diagrams show quick disconnect pin numbers.

V3 Type



2-Meter Cable Models

Dia. (mm)	Model Number	Range (mm)	Mounting	Electrical Output	Switching Frequency	Barrel Material	Cable Jacket/Size	Dwg. No.
3	NJ0.6-3-22-E	0.6	Flush	NPN N.O.	3 kHz	SS	PUR/#30 AWG	1
	NJ0.6-3-22-E2	0.6	Flush	PNP N.O.	3 kHz	SS	PUR/#30 AWG	1
4	NJ0.6-4GM22-E	0.6	Flush	NPN N.O.	3 kHz	SS	PUR/#30 AWG	2
	NJ0.6-4GM22-E2	0.6	Flush	PNP N.O.	3 kHz	SS	PUR/#30 AWG	2
	NJ0.8-4-25-E	0.8	Flush	NPN N.O.	3 kHz	SS	PVC/#26 AWG	3
	NBB0.8-4M25-E2	0.8	Flush	PNP N.O.	3 kHz	SS	PVC/#26 AWG	4
5	NJ0.8-5GM25-E	0.8	Flush	NPN N.O.	3 kHz	Ni-Brass	PVC/#26 AWG	5
	NBB0.8-5GM25-E2	0.8	Flush	PNP N.O.	3 kHz	SS	PVC/#26 AWG	6
6.5	NJ1.5-6.5-50-E	1.5	Flush	NPN N.O.	5 kHz	SS	PUR/#26 AWG	7
	NJ1.5-6.5-40-E2	1.5	Flush	PNP N.O.	500 Hz	SS	PUR/#26 AWG	8
	NBB2-6.5M30-E0	2	Flush	NPN N.O.	2.5 kHz	Ni-Brass	PVC/#26 AWG	9
	NBB2-6.5M30-E2	2	Flush	PNP N.O.	3 kHz	Ni-Brass	PVC/#26 AWG	9

Nano (M8) Quick Disconnect Models

Dia. (mm)	Model Number	Range (mm)	Mounting	Electrical Output	Switching Frequency	Barrel Material*	Quick Disconnect	Dwg. No.
5	NBB0.8-5GM25-E2-V3	0.8	Flush	PNP N.O.	3 kHz	SS	M8 Nano	10
6.5	NBB2-6.5M25-E2-V3	2	Flush	PNP N.O.	3 kHz	Ni-Brass	M8 Nano	11

* SS = stainless steel, Ni-Brass = nickel-plated brass

Look for these logos in the drawings to identify our X-Series extended range and Half Pint short-barrel sensors



X-Series™
Sensing range 25-240% beyond "traditional" inductive sensors



Half Pint
Short-barrel cylindrical sensors for space-critical applications

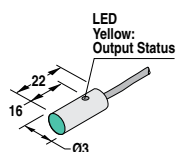
Inductive Cylindrical

3-Wire and 4-Wire DC

CONTINUED

Drawing No. 1

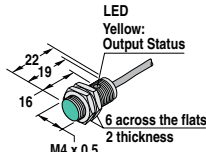
NJ0.6-3-22-E [NPN N.O.]
NJ0.6-3-22-E2 [PNP N.O.]



0.6 mm Sensing Range

Drawing No. 2

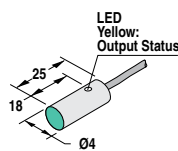
NJ0.6-4GM22-E [NPN N.O.]
NJ0.6-4GM22-E2 [PNP N.O.]



0.6 mm Sensing Range

Drawing No. 3

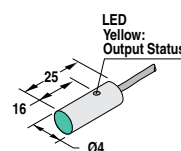
NJ0.8-4-25-E [NPN N.O.]



0.8 mm Sensing Range

Drawing No. 4

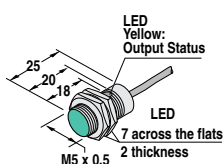
NBB0.8-4M25-E2 [PNP N.O.]



0.8 mm Sensing Range

Drawing No. 5

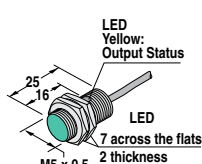
NJ0.8-5GM25-E [NPN N.O.]



0.8 mm Sensing Range

Drawing No. 6

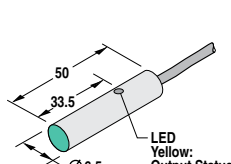
NBB0.8-5GM25-E2 [PNP N.O.]



0.8 mm Sensing Range

Drawing No. 7

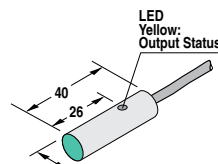
NJ1.5-6.5-50-E [NPN N.O.]



1.5 mm Sensing Range

Drawing No. 8

NJ1.5-6.5-40-E2 [PNP N.O.]



1.5 mm Sensing Range

3 to 6.5 mm Diameter

Inductive Cylindrical

3-Wire
and
4-Wire
DC

Drawing No. 9
NBB2-6.5M30-E0 [NPN N.O.]
NBB2-6.5M30-E2 [PNP N.O.]

LED Yellow: Output Status

2 mm Sensing Range

Drawing No. 10
NBB0.8-5GM25-E2-V3 [PNP N.O.]

Snap-On/Threaded M8 x 1

4-way LED Yellow: Output Status

8 across the flats 2 thickness

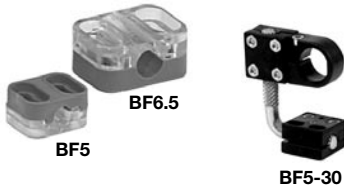
0.8 mm Sensing Range

Drawing No. 11
NBB2-6.5M25-E2-V3 [PNP N.O.]

LED Yellow: Output Status

2 mm Sensing Range

Recommended Accessories



Mounting Brackets

Model	Description
BF5	5 mm clamp bracket
BF6.5	6.5 mm clamp bracket
BF5-30	5-30 mm universal bracket

See pages 885-892 for complete accessory listing.

Nano Cordsets

Straight "Nano" (M8)	
Model	Description
V3-GM-2M-PVC	2 m length, PVC jacket
V3-GM-5M-PVC	5 m length, PVC jacket
V3-GM-2M-PUR	2 m length, PUR jacket
V3-GM-5M-PUR	5 m length, PUR jacket

Right Angle "Nano" (M8)	
Model	Description
V3-WM-2M-PVC	2 m length, PVC jacket
V3-WM-5M-PVC	5 m length, PVC jacket
V3-WM-2M-PUR	2 m length, PUR jacket
V3-WM-5M-PUR	5 m length, PUR jacket

See pages 827-874 for complete cordset listing.



See pages 827-874 for cordsets



See pages 885-892 for accessories