

3-Wire DC 8 mm Diameter Pile Driver™ Inductive Sensors

- 1.5 mm sensing range
- Stainless steel housing and sensing face
- LED target indication
- Long and short barrel models



Technical Specifications

SUPPLY VOLTAGE	10-30 VDC
CURRENT CONSUMPTION	≤ 15 mA
LOAD CURRENT (I _L)	100 mA max.
LEAKAGE CURRENT (OFF-STATE)	≤ 0.01 mA
OUTPUT	Suffix E0: NPN normally open Suffix E2: PNP normally open
VOLTAGE DROP AT I _L (MAX.)	≤ 2 VDC
HYSTERESIS	3-15% (5% typical)
SHORT CIRCUIT AND OVERLOAD PROTECTION	Yes
REVERSE POLARITY PROTECTED	Yes
LED INDICATION	See dimension drawings
HOUSING MATERIAL	303 stainless steel (face and barrel)
STANDARDS	EN 60947-5-2
ENVIRONMENTAL PROTECTION	IP67
AMBIENT TEMPERATURE	-13 °F to +158 °F (-25 °C to +70 °C)
APPROVALS	



See pages 803-854 for cordsets



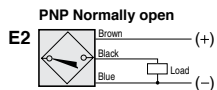
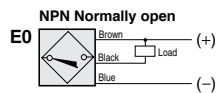
See pages 865-872 for accessories

Wiring Diagrams

3-Wire DC



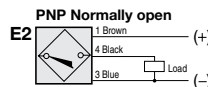
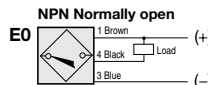
Cable Connection



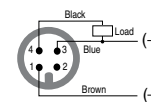
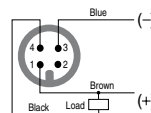
Quick Disconnect

Note: Wiring diagrams show quick disconnect pin numbers.

V1 Type



Male Receptacle End View



Look for this logo in the dimensional drawings to identify our Half Pint short-barrel sensors



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

Reduction Factors

Target Size 8mm x 8mm x 1mm

8mm dia. Model	Mild Steel	Stainless Steel 303/304	316	Al	Cu	Brass	Ti	Ni
Series FE (Ferrous)	1	0.45	0.1	0	0	0	0.5	0.35

Specified Sensing Range x Reduction Factor = Actual Sensing Range
For 400 series stainless, consult factory.

When detecting aluminum foil, Series FE Pile Driver must be used.

8 mm Diameter

2-Meter Cable Models

Dia. (mm)	Model Number	Range (mm)	Mounting	Std. Target Material	Electrical Output	Switching Frequency	Cable Jacket/Size	Dwg. No.
8	NMB1.5-8GM35-E0-FE	1.5	Flush	Steel	NPN N.O.	80 Hz	PUR/#26 AWG	1
	NMB1.5-8GM35-E2-FE	1.5	Flush	Steel	PNP N.O.	80 Hz	PUR/#26 AWG	1
	NMB1.5-8GM50-E0-FE	1.5	Flush	Steel	NPN N.O.	80 Hz	PUR/#26 AWG	2
	NMB1.5-8GM50-E2-FE	1.5	Flush	Steel	PNP N.O.	80 Hz	PUR/#26 AWG	2



Nano (M8) Quick Disconnect Models

Dia. (mm)	Model Number	Range (mm)	Mounting	Std. Target Material	Electrical Output	Switching Frequency	Quick Disconnect	Dwg. No.
8	NMB1.5-8GM50-E0-FE-V3	1.5	Flush	Steel	NPN N.O.	80 Hz	M8 Nano	3
	NMB1.5-8GM50-E2-FE-V3	1.5	Flush	Steel	PNP N.O.	80 Hz	M8 Nano	3
	NMB1.5-8GM65-E0-FE-V3	1.5	Flush	Steel	NPN N.O.	80 Hz	M8 Nano	4
	NMB1.5-8GM65-E2-FE-V3	1.5	Flush	Steel	PNP N.O.	80 Hz	M8 Nano	4
	NMB1.5-8GM35-E0-FE-150MM-V3	1.5	Flush	Steel	NPN N.O.	80 Hz	M8 Nano/150mm PUR Pigtail	5
	NMB1.5-8GM35-E2-FE-150MM-V3	1.5	Flush	Steel	PNP N.O.	80 Hz	M8 Nano/150mm PUR Pigtail	5



Micro (M12) Quick Disconnect Models

Dia. (mm)	Model Number	Range (mm)	Mounting	Std. Target Material	Electrical Output	Switching Frequency	Quick Disconnect	Dwg. No.
8	NMB1.5-8GM50-E0-FE-V1	1.5	Flush	Steel	NPN N.O.	80 Hz	M12 Micro	6
	NMB1.5-8GM50-E2-FE-V1	1.5	Flush	Steel	PNP N.O.	80 Hz	M12 Micro	6
	NMB1.5-8GM65-E0-FE-V1	1.5	Flush	Steel	NPN N.O.	80 Hz	M12 Micro	7
	NMB1.5-8GM65-E2-FE-V1	1.5	Flush	Steel	PNP N.O.	80 Hz	M12 Micro	7
	NMB1.5-8GM35-E0-FE-150MM-V1	1.5	Flush	Steel	NPN N.O.	80 Hz	M12 Micro/150mm PUR Pigtail	8
	NMB1.5-8GM35-E2-FE-150MM-V1	1.5	Flush	Steel	PNP N.O.	80 Hz	M12 Micro/150mm PUR Pigtail	8



Inductive Pile Driver™

Drawing No. 1
 NMB1.5-8GM35-E0-FE [NPN N.O.]
 NMB1.5-8GM35-E2-FE [PNP N.O.]

LED Red: Output Status

1.5 mm Sensing Range

Drawing No. 2
 NMB1.5-8GM50-E0-FE [NPN N.O.]
 NMB1.5-8GM50-E2-FE [PNP N.O.]

LED Red: Output Status

1.5 mm Sensing Range

Drawing No. 3
 NMB1.5-8GM50-E0-FE-V3 [NPN N.O.]
 NMB1.5-8GM50-E2-FE-V3 [PNP N.O.]

LED Red: Output Status

1.5 mm Sensing Range

Drawing No. 4
 NMB1.5-8GM65-E0-FE-V3 [NPN N.O.]
 NMB1.5-8GM65-E2-FE-V3 [PNP N.O.]

LED Red: Output Status

1.5 mm Sensing Range

Drawing No. 5
 NMB1.5-8GM35-E0-FE-150MM-V3 [NPN N.O.]
 NMB1.5-8GM35-E2-FE-150MM-V3 [PNP N.O.]

LED Red: Output Status

V3 Connector

1.5 mm Sensing Range

Drawing No. 6
 NMB1.5-8GM50-E0-FE-V1 [NPN N.O.]
 NMB1.5-8GM50-E2-FE-V1 [PNP N.O.]

LED Red: Output Status

M12 x 1

1.5 mm Sensing Range

Drawing No. 7
 NMB1.5-8GM65-E0-FE-V1 [NPN N.O.]
 NMB1.5-8GM65-E2-FE-V1 [PNP N.O.]

LED Red: Output Status

M12 x 1

1.5 mm Sensing Range

Drawing No. 8
 NMB1.5-8GM35-E0-FE-150MM-V1 [NPN N.O.]
 NMB1.5-8GM35-E2-FE-150MM-V1 [PNP N.O.]

LED Red: Output Status

V1 Connector

1.5 mm Sensing Range

3-Wire DC