

Inductive Proximity Sensors

2mm Sensing Range

3-Wire
DC

Inductive

Specifications		3-Wire DC			
SENSING RANGE		2mm	2mm	2mm	2mm
SHIELDED		No	No	Yes	Yes
MODEL NUMBER(S)		NJ2-8GM50-E	NJ2-8GM50-E-V3	NBB2-12GM50-E0	NBB2-12GM50-E0-V1
		—	—	NBB2-12GM50-E2	NBB2-12GM50-E2-V1
OUTPUT: Transistor, Normally Open	Suffix E0/E	NPN, sinking	NPN, sinking	NPN, sinking	NPN, sinking
	Suffix E2	—	—	PNP, sourcing	PNP, sourcing
LOAD CURRENT		100mA max.	100mA max.	200mA max.	200mA max.
LEAKAGE CURRENT		≤10μA	≤10μA	≤10μA	≤10μA
VOLTAGE DROP		≤2VDC	≤2VDC	≤2VDC	≤2VDC
SHORT CIRCUIT AND OVERLOAD PROTECTION		Yes	Yes	Yes	Yes
REVERSE POLARITY PROTECTION		Yes	Yes	Yes	Yes
SUPPLY VOLTAGE		10-60VDC	10-60VDC	10-30VDC	10-30VDC
LED(s)		Yes (1)	Yes (1)	Yes (1)	Yes (1) 4-way
CURRENT CONSUMPTION		≤15mA	≤15mA	≤15mA	≤15mA
REPEATABILITY		≤.01mm	≤.01mm	≤.01mm	≤.01mm
HYSTERESIS		3-15%(5% typical)	3-15%(5% typical)	3-15%(5% typical)	3-15%(5% typical)
SWITCHING FREQUENCY		3kHz	3kHz	1.5kHz	1.5kHz
ELECTROMAGNETIC COMPATIBILITY COMPLIANCE		NEMA ICS5-2000 See page 6	NEMA ICS5-2000 See page 6	NEMA ICS5-2000 See page 6	NEMA ICS5-2000 See page 6
PROTECTION IEC		IP67	IP67	IP67	IP67
AMBIENT TEMPERATURE		-14°F to +158°F	-14°F to +158°F	-14°F to +158°F	-14°F to +158°F
HOUSING MATERIAL		Stainless steel	Stainless steel	Nickel-plated brass	Nickel-plated brass
SENSING FACE		Crastin	Crastin	Crastin	Crastin
APPROVALS CE	UL LISTED General Purpose	Yes	Yes	Yes	Yes
	SP US General Purpose	Yes	Yes	Yes	Yes
	FM Nonincendive	Yes	Yes	Yes	Yes
ELECTRICAL CONNECTION		 2-meter cable, PUR covered, 3-conductor, #26AWG	 Quick disconnect type V3	 2-meter cable, PVC covered, 3-conductor, #26AWG	 Quick disconnect type V1

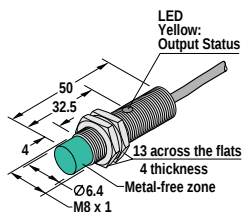
Dimensions (mm)

 Metal  Crastin

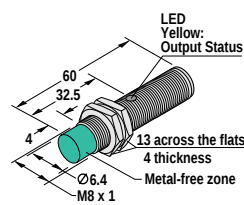
See pages
767-812
for cordsets

 For Pile Driver
versions see
pages 162-177

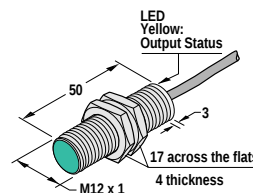
Classic Series
NJ2-8GM50-E



Classic Series
NJ2-8GM50-E-V3



Basic Series
NBB2-12GM50-E0
NBB2-12GM50-E2



Basic Series
NBB2-12GM50-E0-V1
NBB2-12GM50-E2-V1

