

# 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 UL LISTED CE SP FM	UL LISTED General Purpose	Yes	Yes	Yes	Yes
	SP 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

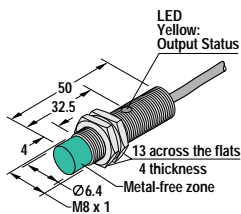


See pages 767-812 for cordsets

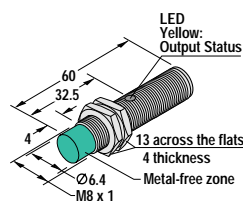


For Pile Driver versions see pages 162-177

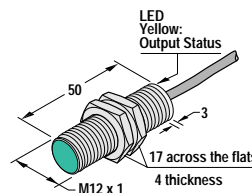
**Classic Series**  
NJ2-8GM50-E



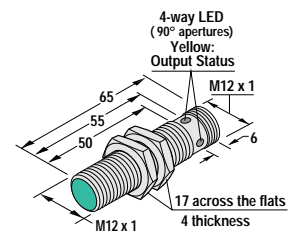
**Classic Series**  
NJ2-8GM50-E-V3



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



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



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