

Inductive Proximity Sensors

5mm Sensing Range

3-Wire
DC

Inductive

Specifications		3-Wire DC			
SENSING RANGE		5mm	5mm	5mm	5mm
SHIELDED		Yes	Yes	Yes	Yes
MODEL NUMBER(S)		—	NBB5-18GM50-E0	NBB5-18GM50-E0-V1	NJ5-18GM50-E0
		NBB5-18GM20-E2-V1	NBB5-18GM50-E2	NBB5-18GM50-E2-V1	NJ5-18GM50-E2
OUTPUT: Transistor, Normally Open		—	NPN, sinking	NPN, sinking	NPN, sinking
Suffix E0		—	NPN, sinking	NPN, sinking	NPN, sinking
Suffix E2		PNP, sourcing	PNP, sourcing	PNP, sourcing	PNP, sourcing
LOAD CURRENT		100mA max.	200mA 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		10-30VDC	10-30VDC	10-30VDC	10-60VDC
LED(s)		No	Yes (1)	Yes (1) 4-way	Yes (1)
CURRENT CONSUMPTION		≤20mA	≤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		500Hz	800Hz	800Hz	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		Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Stainless steel
SENSING FACE		Crastin	Crastin	Crastin	Crastin
APPROVALS CE	UL LISTED General Purpose	Yes	Yes	Yes	Yes
	SR US General Purpose	Yes	Yes	Yes	Yes
	FM Nonincendive	Yes	Yes	Yes	Yes
ELECTRICAL CONNECTION		 Quick disconnect type V1	 2-meter cable, PVC covered, 3-conductor, #22AWG	 Quick disconnect type V1	 2-meter cable, PVC covered, 3-conductor, #20AWG

Dimensions (mm)

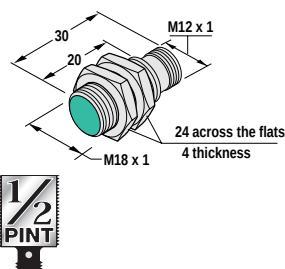
 Metal  Crastin

See pages
767-812
for cordsets

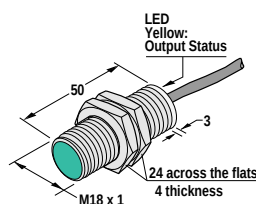


For Pile Driver
versions see
pages 162-177

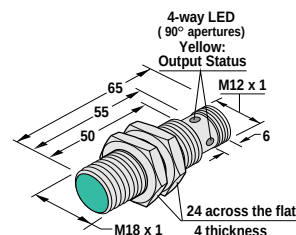
Basic Series
NBB5-18GM20-E2-V1



Basic Series
NBB5-18GM50-E0
NBB5-18GM50-E2



Basic Series
NBB5-18GM50-E0-V1
NBB5-18GM50-E2-V1



Classic Series
NJ5-18GM50-E0
NJ5-18GM50-E2

