

Inductive Proximity Sensors

5mm to 7mm Sensing Range

Inductive

2-Wire
DC

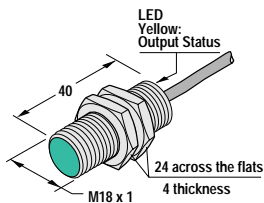
Specifications	2-Wire DC			
	5mm	5mm	7mm	7mm
SENSING RANGE	5mm	5mm	7mm	7mm
SHIELDED	Yes	Yes	Yes	Yes
MODEL NUMBER(S)	NBB5-18GM40-Z0	NBB5-18GM40-Z0-V1	FL7M-7J6HD-Z	FL7M-7J6HD-CN
	—	NBB5-18GM40-Z3-V1	—	—
OUTPUT: Transistor, Normally Open	Sinking or sourcing	Sinking or sourcing	Sinking or sourcing	Sinking or sourcing
LOAD CURRENT	2-100mA	2-100mA	4-100mA	4-100mA
LEAKAGE CURRENT	≤0.5mA	≤0.5mA	≤0.7mA	≤0.7mA
VOLTAGE DROP	≤5VDC	≤5VDC	≤3.5VDC	≤3.5VDC
SHORT CIRCUIT AND OVERLOAD PROTECTION	Yes	Yes	Yes	No
REVERSE POLARITY PROTECTION	Nonpolarity sensitive	Nonpolarity sensitive	Yes	Yes
SUPPLY VOLTAGE	5-60VDC	5-60VDC	10-30VDC	10-30VDC
LED(s)	Yes (1)	Yes (1) 4-way	Yes (2)	Yes (2)
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	500Hz	300Hz	300Hz
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	Nickel-plated brass
SENSING FACE	Crastin	Crastin	Polyamide	Polyamide
APPROVALS	General Purpose	Yes	Yes	No
	General Purpose	Yes	Yes	No
	Nonincendive	Yes	Yes	No
ELECTRICAL CONNECTION	2-meter cable, PVC covered, 2-conductor, #22AWG	Quick disconnect type V1	2-meter cable, PVC covered, 2-conductor, #22AWG	Quick disconnect type V1

Dimensions (mm)

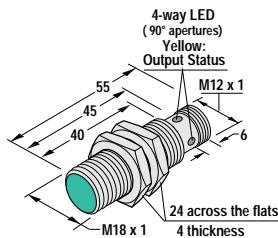
Metal Crastin or Polyamide



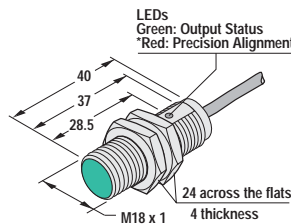
Basic Series
NBB5-18GM40-Z0



Basic Series
NBB5-18GM40-Z0-V1
NBB5-18GM40-Z3-V1



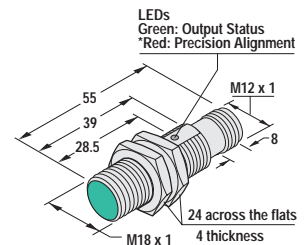
MS Series
FL7M-7J6HD-Z



*Illuminates when the target is between 80-100% of the nominal sensing distance.



MS Series
FL7M-7J6HD-CN



*Illuminates when the target is between 80-100% of the nominal sensing distance.

