Inductive Proximity Sensors

2mm Sensing Range

Specifications	2-Wire AC/DC		
SENSING RANGE	**2mm**	**2mm**	**3mm**
SHIELDED	**Yes**	**Yes**	**Yes**
MODEL NUMBER(S)	**NBB2-V3-US**	**NJ2-F1-US**	**FL7M-3T7HD-CMG**
	—	**NJ2-F1-UO**	—
OUTPUT: Transistor — *Suffix **US/HD***	Normally open	Normally open	Normally open
*Suffix **UO***	—	Normally closed	—
LOAD CURRENT	5-200mA	4-100mA DC or 4-250mA AC	5-150mA DC or 5-100mA AC
LEAKAGE CURRENT	0.8mA	1.7mA	2mA AC / 1.1mA DC
INRUSH CURRENT	0.9A/20ms	2.1A/20ms	1.6A/20ms
VOLTAGE DROP	5V	6.7V	10V AC / 6VDC
SHORT CIRCUIT AND OVERLOAD PROTECTION	No	Yes	**AC:** No / **DC:** Yes
REVERSE POLARITY PROTECTION	Nonpolarity sensitive	Nonpolarity sensitive	—
SUPPLY VOLTAGE	20-140VAC/10-140VDC	20-250VAC/VDC	40-250VAC / 20-250VDC
LED(s)	Yes (1)	Yes (1)	Yes (2)
REPEATABILITY	.01mm	.01mm	.01mm
HYSTERESIS	5%	5%	3-15%
SWITCHING FREQUENCY	25Hz	25Hz	**AC:** 25Hz / **DC:** 500Hz
ELECTROMAGNETIC COMPATIBILITY COMPLIANCE	NEMA ICS5-1996 See page 4	NEMA ICS5-1996 See page 4	NEMA ICS5-1996 See page 4
PROTECTION IEC	IP67	IP67	IP67
AMBIENT TEMPERATURE	-13°F to +158°F	-14°F to +158°F	-14°F to +158°F
HOUSING MATERIAL	Crastin	Crastin	Nickel-plated brass
SENSING FACE	Crastin	Crastin	Polyamide
APPROVALS UL LISTED — General Purpose	Yes	Yes	No
CE CERTIFIED — General Purpose	Yes	Yes	No
FM — Nonincendive	Yes	Yes	No
ELECTRICAL CONNECTION	2-meter cable, PVC covered, 2-conductor, #26AWG	2-meter cable, PVC covered, 2-conductor, #20AWG	Quick disconnect type V11

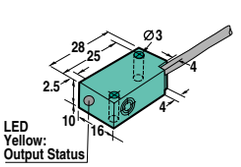
Dimensions (mm)

Metal Crastin or Polyamide

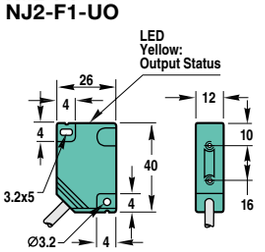
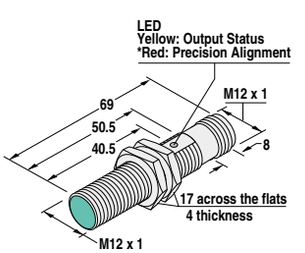
See pages 735-794 for cordsets

See pages 822-823 for cross reference.

Basic Series
NBB2-V3-US



Classic Series
NJ2-F1-US
NJ2-F1-UO



Micro Switch Series
FL7M-3T7HD-CMG