

Inductive Proximity Sensors

4mm to 5mm Sensing Range

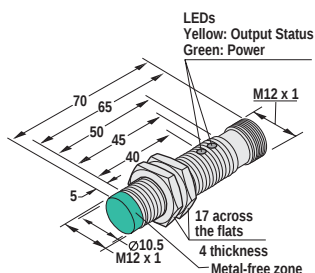
Specifications	2-Wire AC		2-Wire AC/DC	2-Wire AC
SENSING RANGE	4mm	4mm	4mm	5mm
SHIELDED	No	No	No	Yes
MODEL NUMBER(S)	NBN4-12GM60-WS-V11	NBN4-12GM60-WS-V12	NJ4-F1-US	NBB5-18GM60-WS
	—	NBN4-12GM60-WO-V12	NJ4-F1-UO	NBB5-18GM60-WO
OUTPUT: AC – Thyristor AC/DC – Transistor	Suffix US/WS Suffix UO/WO	Normally open Normally closed	Normally open Normally closed	Normally open Normally closed
LOAD CURRENT	5-200mA	5-200mA	4-100mA DC or 4-250mA AC	5-200mA
LEAKAGE CURRENT	≤1.7mA	≤1.7mA	≤1.7mA	≤1.7mA
INRUSH CURRENT	≤1.5A/20ms	≤1.5A/20ms	≤2.1A/20ms	≤1.6A/20ms
VOLTAGE DROP	≤5VAC	≤5VAC	≤6.7V	≤5VAC
SHORT CIRCUIT AND OVERLOAD PROTECTION	No	No	Yes	No
REVERSE POLARITY PROTECTION	—	—	Nonpolarity sensitive	—
SUPPLY VOLTAGE	20-150VAC/45-65Hz	20-150VAC/45-65Hz	20-250VAC/VDC	20-250VAC/45-65Hz
LED(s)	Yes (2)	Yes (2)	Yes (1)	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	25Hz	25Hz	25Hz	25Hz
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	Crastin	Nickel-plated brass
SENSING FACE	Crastin	Crastin	Crastin	Crastin
APPROVALS CE	UL LISTED General Purpose	Yes	Yes	Yes
	SP General Purpose	Yes	Yes	Yes
	FM Nonincendive	Yes	Yes	Yes
ELECTRICAL CONNECTION	 Quick disconnect type V11	 Quick disconnect type V12	 2-meter cable, PVC covered, 2-conductor, #20AWG	 2-meter cable, PVC covered, 2-conductor, #22AWG

Dimensions (mm)

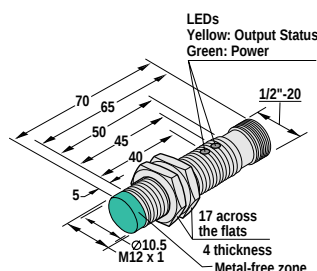
 Metal  Crastin

See pages
767-812
for cordsets

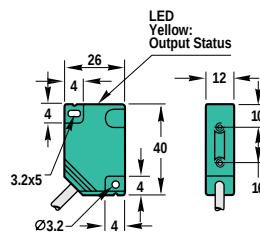
Basic Series NBN4-12GM60-WS-V11



Basic Series NBN4-12GM60-WS-V12 NBN4-12GM60-WO-V12



Classic Series NJ4-F1-US NJ4-F1-UO



Basic Series NBB5-18GM60-WS NBB5-18GM60-WO

