

Inductive Proximity Sensors

12mm to 15mm Sensing Range

Inductive

2-Wire and 4-Wire AC & AC/DC

Specifications		2-Wire AC/DC		2-Wire AC	
SENSING RANGE		12mm	12mm	15mm	15mm
SHIELDED		No	No	Yes	No
MODEL NUMBER(S)		NCN12-18GM80-US-V12	NCN12-18GM80-US-V93	NBN15-30GKK-WS	NBN15-30GM60-WS
		—	—	NBN15-30GKK-WO	NBN15-30GM60-WO
OUTPUT:	Suffix US/WS	Normally open	Normally open	Normally open	Normally open
	Suffix UO/WO	—	—	Normally closed	Normally closed
LOAD CURRENT		8-200mA AC or DC	8-200mA AC or DC	5-200mA	5-200mA
LEAKAGE CURRENT		1.3mA	1.3mA	1.7mA	1.7mA
INRUSH CURRENT		1.7A/20ms	1.7A/20ms	1.6A/20ms	1.6A/20ms
VOLTAGE DROP		7V	7V	5V AC	5V AC
SHORT CIRCUIT AND OVERLOAD PROTECTION		Yes	Yes	No	No
REVERSE POLARITY PROTECTION		Nonpolarity sensitive	Nonpolarity sensitive	—	—
SUPPLY VOLTAGE		20-250VAC/20-300VDC	20-250VAC/20-300VDC	20-250VAC/45-65Hz	20-250VAC/45-65HZ
LED(s)		Yes (2)	Yes (2)	Yes (1)	Yes (2)
REPEATABILITY		.01mm	.01mm	.01mm	.01mm
HYSTERESIS		5%	5%	5%	5%
SWITCHING FREQUENCY		30Hz	30Hz	25Hz	25Hz
ELECTROMAGNETIC COMPATIBILITY COMPLIANCE		NEMA ICS5-1996 See page 4	NEMA ICS5-1996 See page 4	NEMA ICS5-1996 See page 4	NEMA ICS5-1996 See page 4
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	General Purpose	Yes	Yes	Yes	Yes
	General Purpose	Yes	Yes	Yes	Yes
	Nonincendive	Yes	Yes	No	Yes
ELECTRICAL CONNECTION		Quick disconnect type V12	Quick disconnect type V93	Terminal housing	2-meter cable, PVC covered, 2-conductor, #22AWG

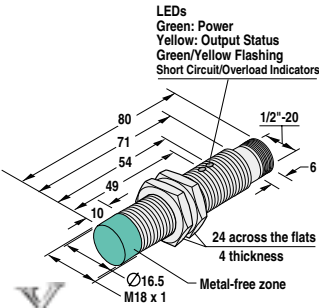
Dimensions (mm)

Metal Crastin

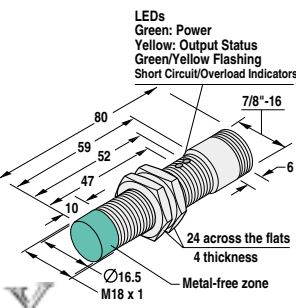
See pages 735-794 for cordsets

See pages 822-823 for cross reference.

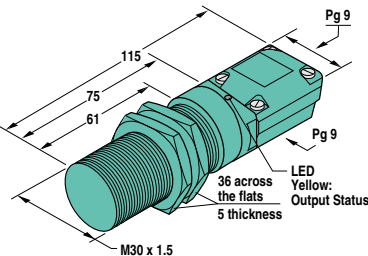
Classic Series
NCN12-18GM80-US-V12



Classic Series
NCN12-18GM80-US-V93



Basic Series
NBN15-30GKK-WS
NBN15-30GKK-WO



Basic Series
NBN15-30GM60-WS
NBN15-30GM60-WO

