

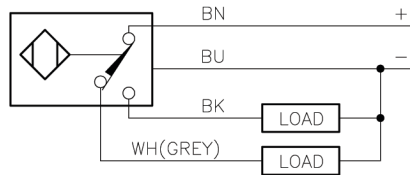
Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Nonembeddable, Potted-In Cable 	Ni15-M30-AD4X	T4417200		15	2-Wire DC
	Ni20-M30-AD4X	T4466135	Extended Range	20	
	Ni15-M30-AP6X/S100	M4617200	High Temp. 100°C	15	3-Wire DC NPN
	Ni20-M30-AN6X	T4670516	Extended Range	20	
	Ni20U-EM30-AN6X	M1646320	Uprox	20	
	Ni20U-M30-AN6X	M1646120	Uprox	20	
	Ni20-M30-AP6X	T4670511	Extended Range	20	3-Wire DC PNP
	Ni20U-EM30-AP6X	M1646300	Uprox	20	
	Ni20U-M30-AP6X	M1646100	Uprox	20	
	Ni15-M30-VN4X	T1571500	Comp. Outputs	15	4-Wire DC NPN
	Ni20-M30-VN4X	T4590604	Extended Range	20	
	Ni15-M30-VP4X	T1561500	Comp. Outputs	15	4-Wire DC PNP
	Ni20-M30-VP4X	T4590605	Extended Range	20	
30 mm - Nonembeddable, Potted-In Cable 	Ni20-EM30WD-AN6X	M4653434	Washdown	20	3-Wire DC NPN
	Ni20-EM30WD-AP6X	M4653423	Washdown	20	3-Wire DC PNP
30 mm - Nonembeddable, Potted-In Cable 	Ni15-EM30D-VP6X/S120	M4617410	High Temp. 120°C	15	3-Wire DC PNP

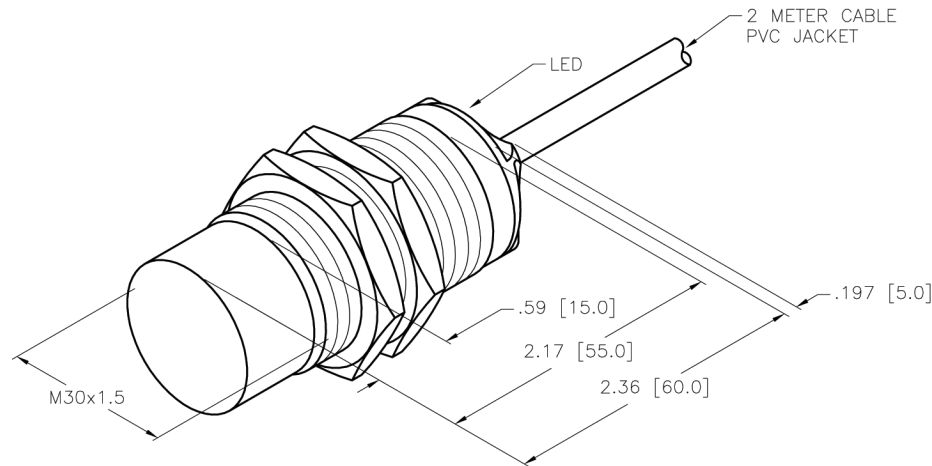
Voltage	Switching Freq. (Hz)	Operating Current AC/DC (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	200	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
	200	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	500	≤200	-25 to +100	IP 67	CPB	IRPA	EPTR	N/A	YE	2M/PVC	2	Diagram 2
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	1500	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	
	1500	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 3
	1500	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	3	
	1500	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	Diagram 4
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	Diagram 5
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	
10-30 VDC	1000	≤200	-25 to +85	IP 68, 69K	SS	PVDF	EPTR	N/A	YE	2M/PUR	2	
10-30 VDC	1000	≤200	-25 to +85	IP 68, 69K	SS	PVDF	EPTR	N/A	YE	2M/PUR	3	
10-30 VDC	1000	≤200	-25 to +120	IP 67	SS	PTFE	PTFE	N/A	YE	2M/PTFE	3	

WIRING DIAGRAM



OUTPUT: VP4X

SHORT-CIRCUIT AND OVERLOAD PROTECTED



SPECIFICATIONS

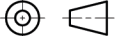
OPERATING VOLTAGE	10–65 VDC
HYSTERESIS (DIFFERENTIAL TRAVEL)	3–15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤1.8 V at 200 mA
OUTPUT FUNCTION	COMPLEMENTARY OUTPUT ONE N.O., ONE N.C. (SPDT)
TTL COMPATIBLE	NO
SHORT-CIRCUIT PROTECTED	YES
TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥220 mA
CONTINUOUS LOAD CURRENT	≤200 mA
OFF-STATE (LEAKAGE) CURRENT	<100 μA
NO-LOAD CURRENT	≤10 mA
TIME DELAY BEFORE AVAILABILITY	≤8 ms
POWER-ON EFFECT	Per IEC 947-5-2
REVERSE POLARITY PROTECTION	INCORPORATED
WIRE-BREAK PROTECTION	INCORPORATED
TRANSIENT PROTECTION	Per EN 60947-5-2
OPERATING TEMPERATURE	-25°C to +70°C (-13°F to +158°F)
ENCLOSURE	MEETS NEMA 1, 3, 4, 6, 13 AND IEC IP67
SHOCK	30 g, 11 ms
VIBRATION	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
LED FUNCTION	YELLOW: OUTPUT ENERGIZED
RATED OPERATING DISTANCE(Sn)	20 mm = .787" (NOMINAL)
SWITCHING FREQUENCY	500 Hz
REPEATABILITY	≤2% of RATED OPERATING DISTANCE
EMBEDDABLE (SHIELDED)	NO
TEMPERATURE DRIFT	<±15%
LOCKNUT M30x1.5	36 mm AF, 41.5 mm AC, 5 mm THK

SOURCE DRAWING - FOR REFERENCE ONLY

NOTE:

1. ALL DIMENSIONAL TOLERANCES ±1.0mm.

2. MATERIALS:
BARREL - CHROME PLATED BRASS
LOCKNUTS - CHROME PLATED BRASS
SENSING FACE - PA12-GF30 PLASTIC
END CAP - TPE-O ELASTOMER

RELATED DOCUMENTS 1. 2. 3. 4.	3RD ANGLE PROJECTION	THIS DRAWING IS PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.				TURCK INC <i>High Technology Sensors and Automation Controls</i>	
		DRFT	IK	DATE	03/12/01	DESCRIPTION Ni20-M30-VP4X	
	TOLERANCES UNLESS OTHERWISE SPECIFIED .X ±0.02 .XX ±0.01 .XXX ±0.005 ANGLES ±1° ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY	DSGN	SCALE	1=1.5			
		MATERIAL SEE NOTE	UNIT OF MEASUREMENT INCH [MILLIMETER]			IDENTIFICATION NO. T4590605	
DO NOT SCALE THIS DRAWING							
FINISH SEE NOTE				FILE: T4590605		SHEET 1 OF 1	

A	DRAWING RELEASE	CBM	06/07/01	
REV	DESCRIPTION	BY	DATE	ECO NO.