

Inductive Sensors

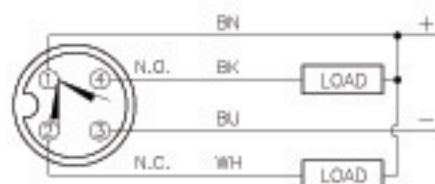


Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Nonembeddable, eurofast® Connection 	Ni 4-M12-AD4X-H1141	T4406700		4	2-Wire DC
	Ni 4-M12-AD4X-H1144	M4406701		4	
	Ni 8-M12-AD4X-H1141	T4411241	Ext. Range	8	
	Ni 8-M12-AD4X-H1144	T4411289	Ext. Range	8	
	Ni 4-EM12-AN7X-H1141	T4606893	TTL Compatible	4	3-Wire DC NPN
	Ni 4-M12-AN6X-H1141	T4606800		4	
	Ni 5-EM12WD-AN6X-H1141	M4653431	Washdown	5	
	Ni 5-M12-AN6X-H1141	T4671390		5	
	Ni 8-M12-AN6X-H1141	T4611315	Ext. Range	8	
	Ni 8U-EM12-AN6X-H1141	M1644350	Uprox	8	
	Ni 8U-M12-AN6X-H1141	M1644150	Uprox	8	
	Ni 8U-M12-AN6X2-H1141	M1644155	Uprox, Dual LED	8	
	Ni 4-M12-AP6X-H1141	T4606700		4	3-Wire DC PNP
	Ni 5-EM12WD-AP6X-H1141	M1634331	Washdown	5	
	Ni 5-M12-AP6X-H1141	T4653400		5	
	Ni 8-M12-AP6X-H1141	T4611310	Ext. Range	8	
	Ni 8U-EM12-AP6X-H1141	M1644340	Uprox	8	
	Ni 8U-M12-AP6X-H1141	M1644140	Uprox	8	
	Ni 8U-M12-AP6X2-H1141	M1644145	Uprox, Dual LED	8	
	Ni 4-M12-VN6X-H1141	T1643100	Comp. Output	4	4-Wire DC NPN
	Ni 8-M12-VN6X-H1141	T4611323	Ext. Range, Comp. Output	8	
	Ni 4-EM12-VP6X-H1141	M1633101	Comp. Output	4	4-Wire DC PNP
	Ni 4-M12-VP6X-H1141	T1633100	Comp. Output	4	
	Ni 8-M12-VP6X-H1141	T4611324	Ext. Range, Comp. Output	8	
	Ni 5-M12-Y1X-H1141	M4010300		5	2-Wire DC NAMUR

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	2000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	Diagram 1
	2000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*/S674	2	
	2000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	
	2000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*/S674	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKV 4T-*	3	Diagram 2
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	1500	≤200	-25 to +85	IP 68, 69K	SS	PVDF	N/A	YE	RK 4T-*	3	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
10-30 VDC	2000	≤200	-30 to +85	IP 67	CPB	PA 12	GN	YE	RK 4T-*	3	Diagram 3
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	1500	≤200	-25 to +85	IP 68, 69K	SS	PVDF	N/A	YE	RK 4T-*	4	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	4	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 4
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
10-30 VDC	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4.4T-*	6	Diagram 5
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	
5-30 VDC	2000	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.21T-*	7	Diagram 6

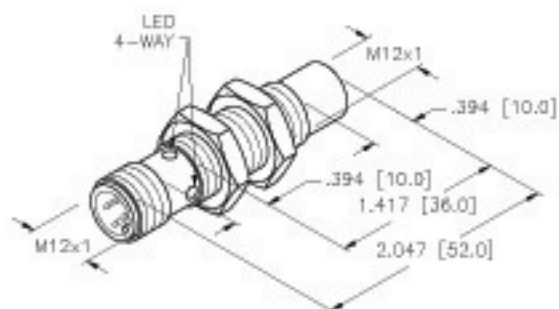
* Length in meters.

WIRING DIAGRAM



OUTPUT: VP6X

SHORT-CIRCUIT AND OVERLOAD PROTECTED



SPECIFICATIONS

OPERATING VOLTAGE	10-30 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)	8 mm = 0.315" (NOMINAL)
SWITCHING FREQUENCY	2000 Hz
REPEATABILITY	≤2% OF RATED OPERATING DISTANCE
TEMPERATURE DRIFT	<-15%/+10%
EMBEDDABLE (SHIELDED)	NO
LOCKNUT M12x1	17 mm AF, 19.5 mm AC, 4.0 mm THK
MATING PLUGS/CABLES	4-PIN "EUROFAST" CONSTRUCTION

NOTE PRELIMINARY SPECIFICATIONS

SOURCE DRAWING - FOR REFERENCE ONLY

NOTE:

MATERIAL:

BARREL - CHROME PLATED BRASS
LOCKNUTS - CHROME PLATED BRASS
CONNECTOR - CHROME PLATED BRASS
SENSING FACE - PA12-QF30 PLASTIC

RELATED DOCUMENTS		3RD ANGLE PROJECTION		THIS DOCUMENT IS PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.		TURCK INC High Technology Sensors and Automation Controls	
1.			DATE 03/14/01	DESCRIPTION Ni 8-M12-VP6X-H1141	SCALE 1=1.5	IDENTIFICATION NO. T4611324	REV P1
2.							
3.		TOLERANCES UNLESS OTHERWISE SPECIFIED ±0.0394 in [±1.00 mm]	UNIT OF MEASUREMENT NCH [MILLIMETER]	DO NOT SCALE THIS DRAWING	FILE: T4611324	SHEET 1 OF 1	
4.							
MATERIAL SEE NOTE		OSON					
FINISH SEE NOTE							