

Inductive Sensors

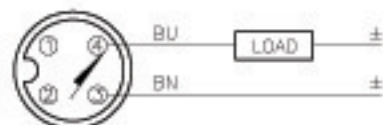


Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Nonembeddable, eurofast® Connection 	Ni 4-M12-AD4X-H1141	T4406700		4	2-Wire DC
	Ni 4-M12-AD4X-H1144	M4406701		4	
	Ni 8-M12-AD4X-H1141	T4411241	Ext. Range	8	
	Ni 8-M12-AD4X-H1144	T4411289	Ext. Range	8	
	Ni 4-EM12-AN7X-H1141	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

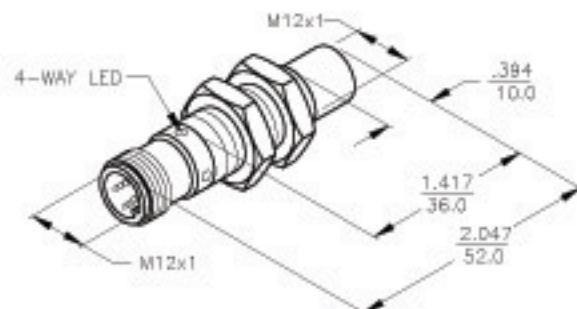
* Length in meters.

WIRING DIAGRAM



OUTPUT: AD4X

SHORT-CIRCUIT AND OVERLOAD PROTECTED



NOTES:

1. MATERIALS:

CHROME PLATED BRASS BARREL
CHROME PLATED BRASS LOCKNUTS
CHROME PLATED BRASS CONNECTOR
PA 12-GF30 PLASTIC SENSING FACE

SPECIFICATIONS

OPERATING VOLTAGE	10-85 VDC
RIPPLE	≤10%
DIFFERENTIAL TRAVEL (HYSTERESIS)	1-15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤5 V at 100 mA
OUTPUT FUNCTION	NORMALLY OPEN 2-WIRE DC
TTL COMPATIBLE	NO
SHORT-CIRCUIT PROTECTED	YES
TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥120 mA
CONTINUOUS LOAD CURRENT	≤100 mA
OFF-STATE (LEAKAGE) CURRENT	≤0.8 mA
TIME DELAY BEFORE AVAILABILITY	≤3 ms
POWER-ON EFFECT	PER IEC 947-5-2
REVERSE POLARITY PROTECTION	INCORPORATED
PROTECTION AGAINST TRANSIENTS	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 AMPITUDE (IN ALL 3 PLANES)
LED FUNCTION	YELLOW: OUTPUT ENERGIZED
RATED OPERATING DISTANCE(S _n)	8mm = .315" (NOMINAL)
SWITCHING FREQUENCY	1000 Hz
REPEATABILITY	≤2% of RATED OPERATING DISTANCE
EMBEDDABLE (SHIELDED)	NO
MATING PLUGS/CABLES	4-PIN "EUROFAST" CONSTRUCTION
LOCKNUT M12x1	17 mm AF, 19.5 mm AC, 4 mm THK

RELATED DOCUMENTS

- 1.
- 2.
- 3.
- 4.

MATERIAL

SEE NOTE 1

FINISH

SEE NOTE 1

3RD ANGLE
PROJECTIONTOLERANCES UNLESS
OTHERWISE SPECIFIED

0.0394in (1.00mm)

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UNIT OF MEASUREMENT

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DESCRIPTION

Ni 8-M12-AD4X-H1141

IDENTIFICATION NO.

T4411241

REV

C

FILE: T4411241

SHEET 1 OF 1

C	UPDATE SPEC, WIRING DIAG, ADD NOTE 1	IK	01/05/01	T4222
REV	DESCRIPTION	BY	DATE	EDD NO.