

# Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
<b>30 mm - Embeddable, eurofast® Connection</b> 	Bi 15U-EM30-AN6X-H1141	M1636737	Uprox+, Stainless steel	15	3-Wire DC NPN
	Bi 15U-EM30WD-AN6X-H1141	M1634834	Uprox+, Washdown	15	
	Bi 15U-M30-AN6X-H1141	M1636736	Uprox+	15	
	Bi 15U-MT30-AN6X-H1141	M1636738	Uprox+, Teflon	15	
	Bi 15U-EM30-AP6X-H1141	M1636733	Uprox+, Stainless steel	15	3-Wire DC PNP
	Bi 15U-EM30WD-AP6X-H1141	M1634820	Uprox+, Washdown	15	
	Bi 15U-M30-AP6X-H1141	M1636732	Uprox+	15	
	Bi 15U-MT30-AP6X-H1141	M1636734	Uprox+, Teflon	15	
	Bi 15U-MT30-AP6X2-H1141	M1644741	Uprox+, Dual LED's	15	
	<b>30 mm - Nonembeddable, eurofast Connection</b> 	Ni 30U-EM30-AN6X-H1141	M1644636	Uprox+, Stainless steel	30
Ni 30U-EM30WD-AN6X-H1141		M1634832	Uprox+, Washdown	30	
Ni 30U-M30-AN6X-H1141		M1644635	Uprox+	30	
Ni 30U-MT30-AN6X-H1141		M1644637	Uprox+, Teflon	30	
Ni 30U-EM30-AP6X-H1141		M1646632	Uprox+, Stainless steel	30	3-Wire DC PNP
Ni 30U-EM30WD-AP6X-H1141		M1634822	Uprox+, Washdown	30	
Ni 30U-M30-AP6X-H1141		M1646631	Uprox+	30	
Ni 30U-MT30-AP6X-H1141		M1646633	Uprox+, Teflon	30	
Ni 30U-MT30-AP6X2-H1141		M1646635	Uprox+, Dual LED's	30	
<b>30 mm - Embeddable, Potted-in Cable</b> 		Bi 15U-EM30WD-AN6X	M1634843	Uprox+, Washdown	15
	Bi 15U-M30-AN6X	M1636735	Uprox+	15	
	Bi 15U-EM30WD-AP6X	M1634819	Uprox+, Washdown	15	3-Wire DC PNP
	Bi 15U-EM30-AP6X	M1636741	Uprox+	15	
	Bi 15U-M30-AP6X	M1636731	Uprox+	15	
	<b>30 mm - Nonembeddable, Potted-in Cable</b> 	Ni 30U-EM30WD-AN6X	M1634833	Uprox+, Washdown	30
Ni 30U-M30-AN6X		M1644634	Uprox+	30	
Ni 30U-EM30WD-AP6X		M1634821	Uprox+, Washdown	30	3-Wire DC PNP
Ni 30U-M30-AP6X		M1646630	Uprox+	30	

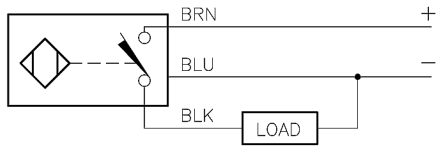


Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	750	≤200	-25 to +75	IP 68	SS	LCP	N/A	YE	RK 4T-*	1	<b>Diagram 1</b> 
	750	≤200	0 to +85	IP 68, 69K	SS	LCP	N/A	YE	RK 4T-*	1	
	750	≤200	-25 to +75	IP 68	CPB	LCP	N/A	YE	RK 4T-*	1	
	750	≤200	-25 to +75	IP 68	TC	LCP	N/A	YE	RK 4T-*	1	
10-30 VDC	750	≤200	-25 to +75	IP 68	SS	LCP	N/A	YE	RK 4T-*	2	<b>Diagram 2</b> 
	750	≤200	0 to +85	IP 68, 69K	SS	LCP	N/A	YE	RK 4T-*	2	
	750	≤200	-25 to +75	IP 68	CPB	LCP	N/A	YE	RK 4T-*	2	
	750	≤200	-25 to +75	IP 68	TC	LCP	N/A	YE	RK 4T-*	2	
	750	≤200	-25 to +75	IP 68	TC	LCP	GN	YE	RK 4T-*	2	
10-30 VDC	500	≤200	-25 to +75	IP 68	SS	LCP	N/A	YE	RK 4T-*	1	<b>Diagram 3</b> 
	500	≤200	0 to +85	IP 68, 69K	SS	LCP	N/A	YE	RK 4T-*	1	
	500	≤200	-25 to +75	IP 68	CPB	LCP	N/A	YE	RK 4T-*	1	
	500	≤200	-25 to +75	IP 68	TC	LCP	N/A	YE	RK 4T-*	1	
10-30 VDC	500	≤200	-25 to +75	IP 68	SS	LCP	N/A	YE	RK 4T-*	2	<b>Diagram 4</b> 
	500	≤200	0 to +85	IP 68, 69K	SS	LCP	N/A	YE	RK 4T-*	2	
	500	≤200	-25 to +75	IP 68	CPB	LCP	N/A	YE	RK 4T-*	2	
	500	≤200	-25 to +75	IP 68	TC	LCP	N/A	YE	RK 4T-*	2	
	500	≤200	-25 to +75	IP 68	TC	LCP	GN	YE	RK 4T-*	2	
10-30 VDC	750	≤200	0 to +85	IP 68, 69K	SS	LCP	N/A	YE	2M/PUR	3	
	750	≤200	-25 to +75	IP 68	CPB	LCP	N/A	YE	2M/PVC	3	
10-30 VDC	750	≤200	0 to +85	IP 68, 69K	SS	LCP	N/A	YE	2M/PUR	4	
	750	≤200	-25 to +75	IP 68	SS	LCP	N/A	YE	2M/PUR	4	
	750	≤200	-25 to +75	IP 68	CPB	LCP	N/A	YE	2M/PVC	4	
10-30 VDC	500	≤200	0 to +85	IP 68, 69K	SS	LCP	N/A	YE	2M/PUR	3	
	500	≤200	-25 to +75	IP 68	CPB	LCP	N/A	YE	2M/PVC	3	
10-30 VDC	500	≤200	0 to +85	IP 68, 69K	SS	LCP	N/A	YE	2M/PUR	4	
	500	≤200	-25 to +75	IP 68	CPB	LCP	N/A	YE	2M/PVC	4	

Uprox+

\* Length in meters.

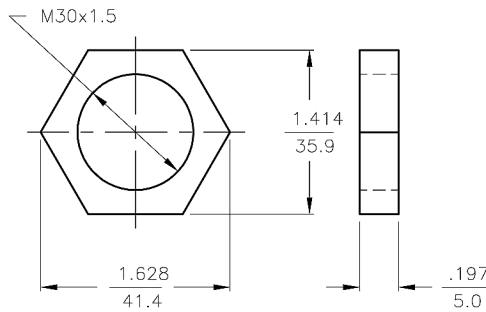
### WIRING DIAGRAMS



OUTPUT: AP6X

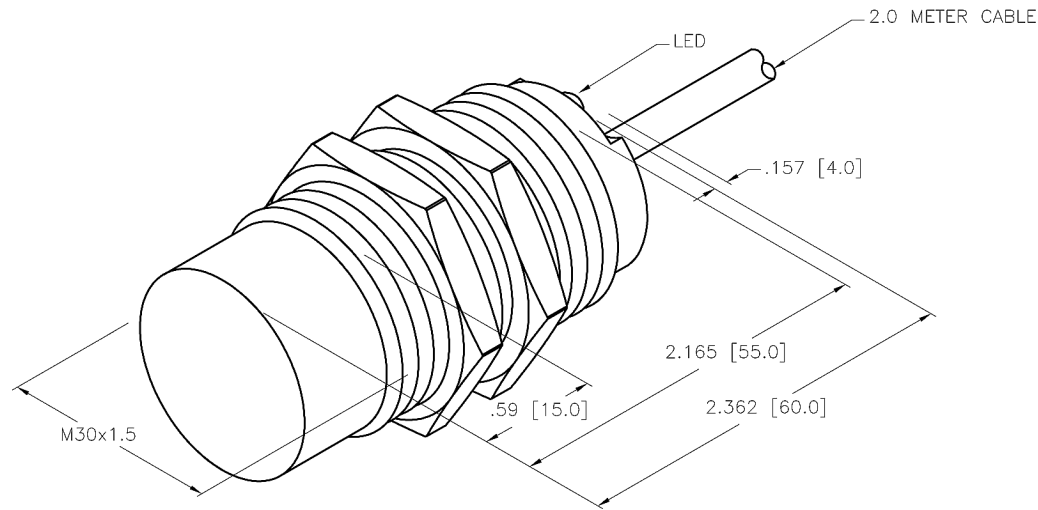
SHORT-CIRCUIT AND OVERLOAD PROTECTED

### LOCKNUT LN-M30



### SPECIFICATIONS

RATED OPERATING DISTANCE	30mm = 1.181"
MOUNTING MODE	NON-FLUSH
MIN. REPEAT ACCURACY	≤ 2%
TEMPERATURE DRIFT	≤ ±10% ≤ ±15%, ≤ -25°C v ≥ +70°C
HYSTERESIS	3-15%
OPERATING TEMPERATURE	-30°C to +85°C (-22°F to +185°F)
RATED OPERATIONAL VOLTAGE	10-30 VDC
RESIDUAL RIPPLE	≤ 10%
DC RATED OPERATIONAL CURRENT	≤ 200 mA
NO-LOAD CURRENT	≤ 15 mA
RESIDUAL CURRENT	≤ 0.1 mA
RATED INSULATION VOLTAGE	≤ 0.5 kV
SHORT-CIRCUIT PROTECTION	YES
MAX. VOLTAGE DROP	≤ 1.8 V
WIRE BREAKAGE PROTECTION	INCORPORATED
REVERSE POLARITY PROTECTION	INCORPORATED
OUTPUT FUNCTION	3-WIRE, NORMALLY OPEN, PNP
MAX. SWITCHING FREQUENCY	≤ 0.5 kHz
HOUSING MATERIAL	METAL, BRASS/CHROME-PLATED
ACTIVE FACE MATERIAL	PLASTIC, LCP-GF30
END CAP MATERIAL	PLASTIC, EPTR
CABLE	ø5.2, LifYY, PVC
VIBRATION RESISTANCE	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
SHOCK RESISTANCE	30 g, 11 ms
DEGREE OF PROTECTION	IP68
SWITCHING STATUS INDICATION	LED, YELLOW



SOURCE DRAWING - FOR REFERENCE ONLY

NOTES:

1. UPROX HAS WELD FIELD IMMUNITY, SENSOR IS SUITABLE FOR USE ON RESISTANCE MACHINES.

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1. 2. 3. 4.				DRFT	RDS	DATE	DESCRIPTION
MATERIAL		TOLERANCES UNLESS OTHERWISE SPECIFIED		DSGN	AF	09/14/07	NI30U-M30-AP6X
FINISH		.X ±0.02 .XX ±0.01 .XXX ±0.005 ANGLES ±1° ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY		UNIT OF MEASUREMENT		SCALE	IDENTIFICATION NO.
				INCH [ MILLIMETER ]		1=1.0	M1646630
A		DRAWING RELEASE		RDS		09/14/07	REV
REV		DESCRIPTION		BY		DATE	ECO NO.
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DO NOT SCALE THIS DRAWING						FILE: M1646630	SHEET 1 OF 1