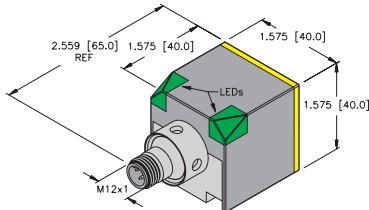
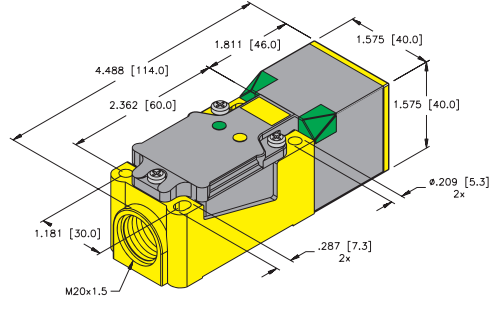
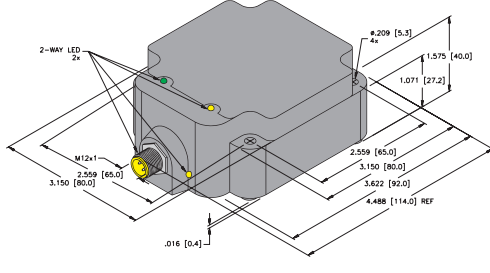


Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
CK40 - Embeddable/Nonembeddable, eurofast® Connection 	Bi20U-CK40-AN6X2-H1141 W/BS 2.1	M1627231	<i>Uprox+</i>	20	3-Wire DC NPN
	Bi30U-CK40-AN6X2-H1141 W/BS 4	M1625820	<i>Uprox+</i>	30	
	Ni50U-CK40-AN6X2-H1141 W/BS 4	M1625823	<i>Uprox+</i>	50	
	Bi20U-CK40-AP6X2-H1141 W/BS 2.1	M1627288	<i>Uprox+</i>	20	3-Wire DC PNP
	Bi30U-CK40-AP6X2-H1141 W/BS 4	M1625829	<i>Uprox+</i>	30	
	Ni50U-CK40-AP6X2-H1141 W/BS 4	M1625837	<i>Uprox+</i>	50	
Ni50U-CK40-VN4X2-H1141 W/BS 4	M1625806	<i>Uprox+/Comp. Outputs</i>	50	4-Wire DC NPN	
Ni50U-CK40-VP4X2-H1141 W/BS 4	M1538302	<i>Uprox+/Comp. Outputs</i>	50	4-Wire DC PNP	
CP40 - Embeddable/Nonembeddable, Terminal Chamber 	Bi20U-CP40-AN6X2	M1625828	<i>Uprox+</i>	20	3-Wire DC NPN
	Bi20U-CP40-AP6X2	M1625826	<i>Uprox+</i>	20	3-Wire DC PNP
	Bi30U-CP40-AN6X2	M1625827	<i>Uprox+</i>	30	3-Wire DC NPN
	Bi30U-CP40-AP6X2	M1625825	<i>Uprox+</i>	30	3-Wire DC PNP
	Ni50U-CP40-AN6X2	M1625824	<i>Uprox+</i>	50	3-Wire DC NPN
	Ni50U-CP40-AP6X2	M1625842	<i>Uprox+</i>	50	3-Wire DC PNP
Q80 - Embeddable/Nonembeddable, eurofast Connection 	Bi50U-Q80-AN6X2-H1141	M1608944	<i>Uprox+</i>	50	3-Wire DC NPN
	Ni70U-Q80-VN4X2-H1141	M1625821	<i>Uprox+/Comp. Outputs</i>	70	4-Wire DC NPN
	Bi50U-Q80-AP6X2-H1141	M1608940	<i>Uprox+</i>	50	3-Wire DC PNP
	Ni70U-Q80-VP4X2-H1141	M1625833	<i>Uprox+/Comp. Outputs</i>	70	4-Wire DC PNP



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	250	≤200	-20 to +70	IP 68	PBT	PBT	GN	YE	RK 4T-*	1	Diagram 1
	250	≤200	-10 to +60	IP 68	PBT	PBT	GN	YE	RK 4T-*	1	
	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4T-*	1	
10-30 VDC	250	≤200	-20 to +70	IP 68	PBT	PBT	GN	YE	RK 4T-*	2	Diagram 2
	250	≤200	-10 to +60	IP 68	PBT	PBT	GN	YE	RK 4T-*	2	
	250	≤200	-20 to +70	IP 68	PBT	PBT	GN	YE	RK 4T-*	2	
10-30 VDC	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4.4T-*	3	Diagram 3
10-30 VDC	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4.4T-*	4	
10-30 VDC	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	N/A	5	Diagram 4
10-30 VDC	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	N/A	6	
10-30 VDC	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	N/A	5	Diagram 5
10-30 VDC	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	N/A	6	
10-30 VDC	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4T-*	1	Diagram 6
10-65 VDC	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4.4T-*	3	
10-30 VDC	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4T-*	2	Diagram 6
10-65 VDC	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4.4T-*	4	

Uprox+

* Length in meters.

3-Wire DC

Ripple.	≤10%
Differential Travel (Hysteresis).	3-15% (5% typical)
Voltage Drop Across Conducting Sensor.	≤1.8 V
	- Si...K08/K10(AP71, AN7) . ≤0.7 V
	- Bi/Ni../S34 ≤1.8 V
	- Bi 2-Q8SE-AP/AN.. . . . ≤2.5 V
Trigger Current for Overload Protection	≥220 mA on 200 mA Load Current
	≥170 mA on 150 mA Load Current
	≥120 mA on 100 mA Load Current
Off-State (Leakage) Current	<100 µA
No-Load Current	<10 mA (Uprox ≤15 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
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability	≤2% of Rated Operating Distance
	Bi 2-Q8SE-AP/AN.. ≤5% of Rated Operating Distance

4-Wire DC

Ripple.	≤10%
Differential Travel (Hysteresis).	3-15% (5% typical)
Voltage Drop Across Conducting Sensor.	≤1.8 V at 200 mA
Trigger Current for Overload Protection	≥220 mA on 200 mA Load Current
	≥170 mA on 150 mA Load Current
	≥120 mA on 100 mA Load Current
Off-State (Leakage) Current	<100 µA
No-Load Current	<10 mA (Uprox ≤15 mA)
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Incorporated
Wire-Break Protection	Incorporated
Transient Protection.	Per EN 60947-5-2
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability	≤2% of Rated Operating Distance