

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Nonembeddable, eurofast® Connection 	Ni 8-M18-AD4X-H1141	T4414700		8	2-Wire DC
	Ni 8-M18-AD4X-H1144	T4411288		8	
	Ni14-M18-AD4X-H1141	T4417241	Ext. Range	14	
	Ni14-M18-AD4X-H1144	T4417290	Ext. Range	14	
	Ni 8-M18-AN6X-H1141	T4614800		8	3-Wire DC NPN
	Ni10-M18-AN6X-H1141	T4614892		10	
	Ni12U-EM18-AN6X-H1141	M1645350	Uprox	12	
	Ni12U-EM18-AN6X2-H1141	M1645355	Uprox	12	
	Ni12U-M18-AN6X-H1141	M1645150	Uprox	12	
	Ni14-M18-AN6X-H1141	T4611410	Ext. Range	14	
	Ni15U-EM18-AN6X-H1141	M1635336	Uprox+ Stainless steel	15	
	Ni15U-M18-AN6X-H1141	M1635335	Uprox+ Stainless steel	15	
	Ni 8-M18-AP6X-H1141	T4614700		8	3-Wire DC PNP
	Ni10-M18-AP6X-H1141	T4641291		10	
	Ni12U-EM18-AP6X-H1141	M1645340	Uprox	12	
	Ni12U-EM18-AP6X2-H1141	M1645345	Uprox	12	
	Ni12U-M18-AP6X-H1141	M1645140	Uprox	12	
	Ni12U-M18-AP6X2-H1141	M1645145	Uprox	12	
	Ni14-M18-AP6X-H1141	T4611400	Ext. Range	14	
	Ni15U-EM18-AP6X-H1141	M1635332	Uprox+ Stainless steel	15	
	Ni15U-M18-AP6X-H1141	M1635331	Uprox+ Stainless steel	15	
	Ni 8-M18-VN4X-H1141	T1571900	Comp. Outputs	8	4-Wire DC NPN
	Ni14-M18-VN4X-H1141	T4590603	Ext. Range	14	
	Ni 8-M18-VP4X-H1141	T1561900	Comp. Outputs	8	4-Wire DC PNP
	Ni14-M18-VP4X-H1141	T4590602	Ext. Range	14	
	Ni10-M18-Y1X-H1141	M4015300		10	2-Wire NAMUR
18 mm - Nonembeddable, eurofast Connection, PTFE Coated 	Ni12U-MT18-AN6X-H1141	M1645250	Uprox	12	3-Wire DC NPN
	Ni15U-MT18-AN6X-H1141	M1635337	Uprox+ PTFE	15	
	Ni15U-MT18-AN6X-H1141/S1589	M16353370	Uprox+ PTFE, weldguard	15	
	Ni12U-MT18-AP6X-H1141	M1645240	Uprox	12	3-Wire DC PNP
	Ni12U-MT18-AP6X2-H1141	M1645245	Uprox	12	
	Ni12U-MT18H-AP6X-H1141/S1589	M1645292	weldguard Uprox	12	
	Ni12U-MT18H-AP6X2-H1141/S1589	M1645293	weldguard Uprox	12	
	Ni15U-MT18-AP6X-H1141	M1635333	Uprox+ PTFE	15	
	Ni15U-MT18-AP6X-H1141/S1589	M1635333-1	Uprox+ PTFE, weldguard	15	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.

3-Wire DC - (AN, RN, AP, RP)

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 (VN, VP)

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

Solid State Relay (AM6 and VM6)

Ripple	≤10%	Time Delay before availability . . .	≤50 ms
Rated Operational Current.	10-30 VDC	Reverse Polarity Protection	Incorporated
Differential.	3-15% (5% typical)	Wire-Break Protection	Incorporated
Voltage Drop		Short Circuit Protected	No
(Across Conducting Sensor) at I _e . .	400 m V	Transient Protection.	Per EN 60947-5-2
Continuous Load Current	≤6 Amp	Shock	30 g, 11 ms
Off-State (leakage) Current	≤0.1 mA	Vibration	55 Hz, 1 mm Amplitude,
Inrush Current	≤8.0 A (10.0 ms max)		in all 3 planes
No-Load Current	≤25 mA	Repeatability	≤2%