





871TM Metal Face	871TM Ferrous Selective	871TM Non-Ferrous Selective	871TM Hazardous Location
			
<ul style="list-style-type: none"> ■ Stainless steel sensing face and barrel ■ AC/DC in one device or DC only ■ AC/DC models have 2 LEDs — power on, output energized (flashing in shorted condition); DC models have 1 LED — output energized ■ DC models short barrel only ■ Both 3-wire DC and 2-wire DC models available ■ 10-30V DC, 40-250V AC/DC 	<ul style="list-style-type: none"> ■ Stainless steel sensing face and barrel ■ 12, 18, 30mm diameter barrel ■ NO or NC outputs ■ Sensor ignores non-ferrous metals ■ 10-30V DC 	<ul style="list-style-type: none"> ■ Stainless steel sensing face and barrel ■ 12, 18, 30mm diameter barrel ■ NO or NC outputs ■ Sensor ignores ferrous metals ■ 10-30V DC 	<ul style="list-style-type: none"> ■ Stainless steel sensing face and barrel ■ 2-wire DC operation ■ Intrinsically safe per FM and CSA standards ■ Standard barrel length ■ 10-31.5V DC
<ul style="list-style-type: none"> ■ 12mm: 2–4mm (extended range models 6–10mm) ■ 18mm: 5–8mm (extended range models 10–20mm) ■ 30mm: 10–15mm (extended range models 20–40mm) 	<ul style="list-style-type: none"> ■ Sensing distance from 1–8mm 	<ul style="list-style-type: none"> ■ Sensing distance from 2–10mm 	<ul style="list-style-type: none"> ■ Sensing distance from 2–15mm
<ul style="list-style-type: none"> ■ 12, 18, 30mm 	<ul style="list-style-type: none"> ■ 12, 18, 30mm 	<ul style="list-style-type: none"> ■ 12, 18, 30mm 	<ul style="list-style-type: none"> ■ 12, 18, 30mm
<ul style="list-style-type: none"> ■ Shielded or unshielded 	<ul style="list-style-type: none"> ■ Shielded 	<ul style="list-style-type: none"> ■ Shielded 	<ul style="list-style-type: none"> ■ Shielded or unshielded
<ul style="list-style-type: none"> ■ PVC cable ■ ToughLink™ cable ■ Mini QD ■ Micro QD 	<ul style="list-style-type: none"> ■ PVC cable ■ ToughLink™ cable ■ Mini QD ■ Micro QD 	<ul style="list-style-type: none"> ■ PVC cable ■ ToughLink™ cable ■ Mini QD ■ Micro QD 	<ul style="list-style-type: none"> ■ PVC cable ■ ToughLink™ cable ■ Micro QD
<ul style="list-style-type: none"> ■ C115 catalog page 2-11 ■ www.ab.com/catalogs 	<ul style="list-style-type: none"> ■ www.ab.com/catalogs 	<ul style="list-style-type: none"> ■ www.ab.com/catalogs 	<ul style="list-style-type: none"> ■ www.ab.com/catalogs

Description/Features




Nominal Sensing Distance

Diameter/Height

Shielding

Connections

Additional Info

871TM PLC Interfacer	871TM DeviceNet	872C WorldProx	872C WorldProx Short Barrel
			
<ul style="list-style-type: none"> ■ Stainless steel sensing face and barrel ■ Designed for low load current PLC, I/O, and PC applications ■ Short barrel only ■ 20-250V AC/DC 	<ul style="list-style-type: none"> ■ Stainless steel sensing face and barrel ■ Direct connection to DeviceNet ■ Autobaud ■ Teach/learn ■ Discrete and Analog output ■ Diagnostics: object too close, too far, target always in, always out, sensor operational ■ Timing functions, motion detection ■ 11-25V DC 	<ul style="list-style-type: none"> ■ Threaded nickel plated brass barrel ■ 360° LED ■ 3-wire DC and 2-wire DC models (12, 18, 30mm only) ■ Relay output, QuadroPlex and Comp. Output models available ■ 10-30V DC 	<ul style="list-style-type: none"> ■ Threaded nickel plated brass barrel ■ 360° LED ■ 3-wire operation ■ 10-30V DC
<ul style="list-style-type: none"> ■ Sensing distance from 2–15mm 	<ul style="list-style-type: none"> ■ Sensing distances from 5–15mm 	<ul style="list-style-type: none"> ■ Sensing distances from 2–15mm 	<ul style="list-style-type: none"> ■ Sensing distances from 3–15mm
<ul style="list-style-type: none"> ■ 12, 18, 30mm 	<ul style="list-style-type: none"> ■ 18, 30mm 	<ul style="list-style-type: none"> ■ 6.5, 8, 12, 18, 30mm 	<ul style="list-style-type: none"> ■ 12, 18, 30mm
<ul style="list-style-type: none"> ■ Shielded or unshielded 	<ul style="list-style-type: none"> ■ Shielded or unshielded 	<ul style="list-style-type: none"> ■ Shielded or unshielded 	<ul style="list-style-type: none"> ■ Shielded or unshielded
<ul style="list-style-type: none"> ■ PVC cable ■ ToughLink™ cable ■ Mini QD ■ Micro QD 	<ul style="list-style-type: none"> ■ PVC cable ■ Mini QD ■ Micro QD 	<ul style="list-style-type: none"> ■ PVC cable ■ Mini QD ■ Micro QD ■ Pico QD(6.5, 8mm models only) 	<ul style="list-style-type: none"> ■ PVC cable ■ Mini QD ■ Micro QD ■ Pico QD
<ul style="list-style-type: none"> ■ C115 catalog page 2-16 ■ www.ab.com/catalogs 	<ul style="list-style-type: none"> ■ www.ab.com/catalogs 	<ul style="list-style-type: none"> ■ C115 catalog page 2-22 ■ www.ab.com/catalogs 	<ul style="list-style-type: none"> ■ C115 catalog page 2-22 ■ www.ab.com/catalogs

Description/Features




Nominal Sensing Distance





Diameter/Height







Shielding





Connections





Additional Info




	872C WorldProx Extended Sensing	872C WorldProx AC	872C WorldProx AC/DC	872CP WorldProx Polymer Barrel
				
Description/ Features	<ul style="list-style-type: none"> Threaded nickel plated brass barrel 360° LED 3-wire operation 10-30V DC 	<ul style="list-style-type: none"> Threaded nickel plated brass barrel 360° LED 2-wire AC only operation 20-240V AC – 8mm 20-250V AC 	<ul style="list-style-type: none"> Threaded nickel plated brass barrel 2-wire AC/DC operation 360° LED 20-250V AC/DC 	<ul style="list-style-type: none"> Threaded plastic barrel 10-30V DC
Nominal Sensing Distance	■ Sensing distances from 4–20mm	■ Sensing distances from 1–15mm	■ Sensing distances from 2–15mm	■ Sensing distances from 3–15mm
Diameter/Height	■ 12, 18, 30mm	■ 8, 12, 18, 30mm	■ 12, 18, 30mm	■ 12, 18, 30mm
Shielding	■ Shielded or unshielded	■ Shielded or unshielded	■ Shielded or unshielded	■ Shielded or unshielded
Connections	<ul style="list-style-type: none"> PVC cable Micro QD 	<ul style="list-style-type: none"> PVC cable Mini QD Micro QD 	<ul style="list-style-type: none"> PVC cable Micro QD 	<ul style="list-style-type: none"> PVC cable Micro QD
Additional Info	<ul style="list-style-type: none"> C115 catalog page 2-24 www.ab.com/catalogs 	<ul style="list-style-type: none"> C115 catalog page 2-29 www.ab.com/catalogs 	<ul style="list-style-type: none"> C115 catalog page 2-30 www.ab.com/catalogs 	<ul style="list-style-type: none"> www.ab.com/sensors

	871C NAMUR	871C Small Barrel	871C Polymer Barrel	871C Analog Output
				
Description/ Features	<ul style="list-style-type: none"> Threaded nickel plated brass barrel Intrinsically safe per FM, CSA and CENELEC standards Meets DIN 19234 NAMUR standard Short barrel length 5-15V DC (8.2V DC nominal) 	<ul style="list-style-type: none"> Threaded or smooth nickel plated brass barrel Available in 3, 4, and 5mm diameter models Threaded and smooth barrel models 10-30V DC 	<ul style="list-style-type: none"> Threaded plastic barrel 24-250V AC 	<ul style="list-style-type: none"> Threaded nickel plated brass barrel Analog output 3-wire operation 18-30V DC
Nominal Sensing Distance	■ Sensing distances from 1–15mm	■ Sensing distances from 0.6–1mm	■ Sensing distances from 5–15mm	■ Sensing distances from .5–14mm
Diameter/Height	■ 8, 12, 18, 30mm	■ 3, 4, 5mm	■ 18, 30mm	■ 12, 18, 30mm
Shielding	■ Shielded or unshielded	■ Shielded	■ Shielded or unshielded	■ Shielded or unshielded
Connections	<ul style="list-style-type: none"> PVC cable Micro QD 	<ul style="list-style-type: none"> PVC cable Pico QD 	<ul style="list-style-type: none"> PVC cable 	<ul style="list-style-type: none"> PVC cable
Additional Info	<ul style="list-style-type: none"> www.ab.com/catalogs 	<ul style="list-style-type: none"> C115 catalog page 2-42 www.ab.com/catalogs 	<ul style="list-style-type: none"> www.ab.com/catalogs 	<ul style="list-style-type: none"> www.ab.com/catalogs

871Z Weld-Field Immune	871ZC Weld Field Immune	871D Cylinder Position	871D WorldClamp Style	871P VersaCube	871L/872L Limit Switch Style
					
<ul style="list-style-type: none"> Threaded PTFE-coated barrel PTFE-coated nuts Weld field immune Thermoset or PTFE face Fire retardant cable 10-30V DC, 40-250V AC/DC 	<ul style="list-style-type: none"> Threaded copper barrel, thermoset plastic face Weld field immune Available with or without ToughCoat Finish Barrel and face resist weld slag 40-250V AC/DC, 10-30V DC 	<ul style="list-style-type: none"> Nickel plated brass or aluminum body, stainless steel probe, ceramic face Weld-field immune circuitry Rugged low profile housing 3,000 psi (207 bar) pressure rated Housing 304 degree rotatable after installation without breaking pressure seal Multiple standard probe lengths available 10-30V DC, 20-250V AC/DC 	<ul style="list-style-type: none"> Plastic housing Weld field immune Superior LED visibility 100mm, 165mm and 200mm lead lengths available Small and large chicklet sizes available Industry standard mounting 10-30V DC, 20-150V AC/DC 	<ul style="list-style-type: none"> Plastic housing, metal mounting base Weld field immune models available Available with or without ToughCoat Finish 5-position sensing head Rugged burn and weld-slag resistant housing Flexible mounting options allow retrofit to other cube style and limit switch style sensors 10-60V DC, 20-250V AC/DC Equal sensing models available 	<ul style="list-style-type: none"> Plastic body, 17-position head Limit switch style has limit switch mounting dimensions 2-wire AC, 2-wire AC/DC or 3-wire DC Switch selectable NO or NC output (871L) Programmable NO or NC output (872L) Sensing ranges up to 40mm 10-60V DC, 20-250V AC/DC (871L) 20-250V AC, 10-30V DC (872L)
<ul style="list-style-type: none"> Sensing distances from 2-10mm 	<ul style="list-style-type: none"> Sensing distances from 2-15mm 	<ul style="list-style-type: none"> 2mm 	<ul style="list-style-type: none"> 2mm 	<ul style="list-style-type: none"> 15 or 25mm 	<ul style="list-style-type: none"> 20 or 40mm
<ul style="list-style-type: none"> 12, 18, 30mm 	<ul style="list-style-type: none"> 12, 18, 30mm 	<ul style="list-style-type: none"> 37mm (installed) 	<ul style="list-style-type: none"> 18mm (10-30V DC) 20-150V AC/DC 	<ul style="list-style-type: none"> 40mm 	<ul style="list-style-type: none"> 120mm
<ul style="list-style-type: none"> Shielded 	<ul style="list-style-type: none"> Shielded (AC/DC models) Shielded or unshielded (DC models) 	<ul style="list-style-type: none"> Shielded 	<ul style="list-style-type: none"> Shielded 	<ul style="list-style-type: none"> Shielded or unshielded 	<ul style="list-style-type: none"> Shielded or unshielded
<ul style="list-style-type: none"> ToughLink™ cable (AC/DC models) Mini QD Micro QD 	<ul style="list-style-type: none"> Mini QD Micro QD 	<ul style="list-style-type: none"> Mini QD Micro QD 	<ul style="list-style-type: none"> Micro QD 	<ul style="list-style-type: none"> Mini QD Micro QD 	<ul style="list-style-type: none"> Terminal w/ threaded conduit opening Mini QD Micro QD
<ul style="list-style-type: none"> This magazine page 67 C115 catalog page 2-47 www.ab.com/catalogs 	<ul style="list-style-type: none"> This magazine page 66 C115 catalog page 2-50 www.ab.com/catalogs 	<ul style="list-style-type: none"> C115 catalog page 2-75 www.ab.com/catalogs 	<ul style="list-style-type: none"> C115 catalog page 2-71 www.ab.com/catalogs 	<ul style="list-style-type: none"> C115 catalog page 2-55 www.ab.com/catalogs 	<ul style="list-style-type: none"> C115 catalog page 2-63 www.ab.com/catalogs

802PR Limit Switch Style	871FM Miniature Flat Pack	871F Flat Pack Standard and Weld-Field Immune	871F Block Style
			
<ul style="list-style-type: none"> Solid state output Top or side sensing models 90° indexing sensing heads Corrosion resistant models Hazardous location models Limit switch style has limit switch mounting dimensions General Purpose 20-250V AC/DC 	<ul style="list-style-type: none"> Plastic body 2-wire AC and 3-wire DC models Four compact sizes: 28 x 16 x 11mm, 40 x 26 x 12mm, 25 x 50 x 10mm (DC models) and 31 x 18 x 10mm 10-30V DC 90-250V AC 	<ul style="list-style-type: none"> Plastic body Cable, terminal chamber or quick-disconnect models DC models incorporate reverse polarity, short circuit and overload protection AC/DC models incorporate short circuit and overload protection Sensing ranges to 65mm Weld field immune 10-30V DC, 20-250V AC/DC 	<ul style="list-style-type: none"> Cast aluminum body Adjustable sensing range up to 70mm 10-30V DC
<ul style="list-style-type: none"> 17mm 	<ul style="list-style-type: none"> Sensing distances from 2-8mm 	<ul style="list-style-type: none"> Standard: 50-65mm WFI: 40-50mm 	<ul style="list-style-type: none"> 70mm
<ul style="list-style-type: none"> 117-131mm 	<ul style="list-style-type: none"> 10-12mm 	<ul style="list-style-type: none"> 80mm 	<ul style="list-style-type: none"> 100mm
<ul style="list-style-type: none"> Shielded 	<ul style="list-style-type: none"> Shielded or unshielded 	<ul style="list-style-type: none"> Shielded or unshielded 	<ul style="list-style-type: none"> Unshielded
<ul style="list-style-type: none"> ToughLink™ cable Micro and Mini QD Terminals with threaded conduit opening or conduit coupler 	<ul style="list-style-type: none"> PVC cable Pico QD 	<ul style="list-style-type: none"> Mini QD Micro QD Terminals w/threaded conduit opening ToughLink™ cable 	<ul style="list-style-type: none"> PVC cable Micro QD
<ul style="list-style-type: none"> www.ab.com/catalogs 	<ul style="list-style-type: none"> www.ab.com/catalogs 	<ul style="list-style-type: none"> C115 catalog page 2-67 www.ab.com/catalogs 	<ul style="list-style-type: none"> www.ab.com/catalogs

	871P Can Sensor	871R Ring	875C Capacitive	875CP Capacitive
				
Description/Features	<ul style="list-style-type: none"> Rugged stainless steel housing Short and long range models for different can sizes DC can-motion detection model available 10-30V DC, 30-150V AC/DC 	<ul style="list-style-type: none"> Aluminum body 12mm, 20mm, 50mm, 100mm ring diameters 3-wire operation 10-30V DC 	<ul style="list-style-type: none"> Nickel plated brass barrel Capacitive technology senses metals and non-metals, liquid and solids Adjustable sensing distance 3-wire DC and 2-wire AC models 10-48V DC, 24-240V AC 	<ul style="list-style-type: none"> Plastic barrel Capacitive technology senses metals and non-metals, liquid and solid 2-wire AC and 3-wire DC models Adjustable sensing distance 10-48V DC, 24-240V AC
Nominal Sensing Distance	<ul style="list-style-type: none"> Sensing distances from 19-29mm 	<ul style="list-style-type: none"> Sensing distances from 2.5-8mm 	<ul style="list-style-type: none"> Sensing distances from 1-10mm 	<ul style="list-style-type: none"> Sensing distances from 2-30mm
Diameter/Height	<ul style="list-style-type: none"> 38.1-44.5mm 	<ul style="list-style-type: none"> 24-44mm 	<ul style="list-style-type: none"> 12, 18, 30mm (DC models) 18, 30mm (AC models) 	<ul style="list-style-type: none"> 18, 30, 34mm
Shielding	<ul style="list-style-type: none"> Shielded 		<ul style="list-style-type: none"> Shielded 	<ul style="list-style-type: none"> Unshielded
Connections	<ul style="list-style-type: none"> PVC cable (10-30V DC models) Mini QD 	<ul style="list-style-type: none"> PVC cable Micro QD 	<ul style="list-style-type: none"> PVC cable Pico QD (18mm DC models) Micro QD (30mm) 	<ul style="list-style-type: none"> PVC cable Pico QD (18mm DC models) Micro QD (30 & 34mm)
Additional Info	<ul style="list-style-type: none"> www.ab.com/catalogs 	<ul style="list-style-type: none"> www.ab.com/catalogs 	<ul style="list-style-type: none"> C115 catalog page 4-8 www.ab.com/catalogs 	<ul style="list-style-type: none"> C115 catalog page 4-9 www.ab.com/catalogs

	873P Ultrasonic Standard Analog or Discrete	873P Ultrasonic Programmable	873C Ultrasonic	873E RightSound Ultrasonic
				
Description/Features	<ul style="list-style-type: none"> Plastic barrel Analog or discrete models Adjustable sensing distance for discrete models Control pin for hold and synchronize functions 18-30V DC 	<ul style="list-style-type: none"> Plastic barrel 2 programmable setpoints via setup pushbutton 2 discrete and 1 analog output Analog output scaled between setpoints Discrete outputs can be programmed for NO or NC 19-30V DC 	<ul style="list-style-type: none"> Nickel plated brass barrel Metal, non-metal solid and liquid sensing capability Adjustable sensing range (switching models) Adjustable background suppression (analog models) 18-30V DC 	<ul style="list-style-type: none"> Plastic body Ideal solution for sensing clear materials including glass or plastic bottles Designed to food industry standards 11-30V DC
Nominal Sensing Distance	<ul style="list-style-type: none"> Sensing distances from 100-2500mm 	<ul style="list-style-type: none"> Sensing distances from 150-3500mm 	<ul style="list-style-type: none"> Sensing distances from 300-1000mm 	<ul style="list-style-type: none"> Sensing distances from 50-750mm
Diameter/Height	<ul style="list-style-type: none"> 18, 30mm 	<ul style="list-style-type: none"> 30mm 	<ul style="list-style-type: none"> 30mm 	<ul style="list-style-type: none"> 69mm
Shielding				
Connections	<ul style="list-style-type: none"> Micro QD 	<ul style="list-style-type: none"> Micro QD 	<ul style="list-style-type: none"> PVC cable 2m 	<ul style="list-style-type: none"> 300V PVC cable 2m
Additional Info	<ul style="list-style-type: none"> C115 catalog page 3-3 www.ab.com/catalogs 	<ul style="list-style-type: none"> C115 catalog page 3-6 www.ab.com/catalogs 	<ul style="list-style-type: none"> www.ab.com/catalogs 	<ul style="list-style-type: none"> C115 catalog page 3-9 www.ab.com/catalogs