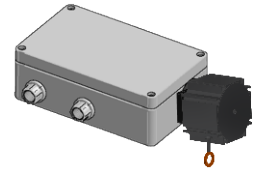
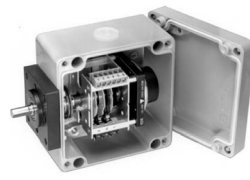
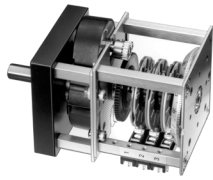



MICRONOR® AG ROTARY-LINEAR LIMIT SWITCHES

GP=General Purpose, IP64
HD=Heavy Duty, IP66



MODEL	KW60	DWG120-KWG120	MR221-MR231	MR222	KWG120W	MR221W
	Open Frame, OEM	GP, Single Shaft	HD Single Shaft	HD Dual Ended Shaft	GP Draw Wire/Linear	HD Draw Wire/Linear
Applications	For position feedback or safety limits on machinery where movement based on rotation angle or no. of shaft revolutions. Examples: crane, winch, drum hoist, door, conveyor, dam gates, locks, flood control gate, water intake gate, lift bridge, bascule bridge, swing bridge.				For position feedback or safety limits, on machinery where movement based on linear motion. Examples: lift platform, elevator, dam gate, hydraulic cylinder.	
No. of Cam Switch Channels	1-10	DWG120: 1-5 DWG160: 6-10	2-8	2-8	DWG120W: 1-5 DWG160W: 6-10	2-8
Switch rating (resistive continuous spec shown)	KS25B4, VDE rated, 4A 240VAC, 1A 60VDC Option: S840	KS25B4, VDE rated, 4A 240VAC, 1A 60VDC Option S840	S840, UL rated, 6A 240VAC, 6A 24VDC Option: MT, 125VDC/10A	S840, UL rated, 6A 240VAC, 6A 24VDC Option: MT, 125VDC/10A	KS25B4, VDE rated, 4A 240VAC, 1A 60VDC	S840, UL rated, 6A 240VAC, 6A 24VDC
Cam option	 Standard: NK4201.180, User Programmable Double Cams Options: NK4101.20 Adjustable Single Cams PSN Cam Programming Tool Stored Internally (except KW60)					
Gear Ratio options	Gear ratio options apply to Rotary Limit Switches ONLY. Draw Wire/Linear Limit Switches are internally geared per Travel Length. Step UP (D1:x): D2 (1:2, usually for travel less than 180 degrees). Step DOWN (Single Stage Gearing Ux:1): U1 (direct drive), U1.25, U2.0, U2.6, U2.75, U3.5, U4.0, U5.0 Step DOWN (Multi-stage Gearing Mx:1): M12.5, M20, M25, M30, M37.5, M40, M50, M52.5, M75, M100, M200, M300, M420, M600, M750, M1600, M2250, M2500					n/a
Draw Wire Travel options	n/a	n/a	n/a	n/a	1.5m, 3m, 5m, 7.5m, 10m, 15m, 30m, 40m, 50m	1.5m, 3m, 5m, 7.5m, 10m, 15m, 30m, 40m, 50m
Position Feedback Output options	n/a	DWG120 (potentiometer) KWG120 (4-20mA transducer) KWG160 (4-20mA transducer)	MR221 (4-20mA transducer) MR231 (4-20mA encoder)	MR222 (4-20mA transducer)	KWG120W (4-20mA transducer) KWG160W (4-20mA transducer)	MR221W (4-20mA transducer)
Mechanical options	Rear shaft (geared end)		Without conduit hubs	Without conduit hubs	n/a	Without conduit hubs
Housing /IP standard and option	n/a	Proprietary copper free aluminum alloy (corrosion resistance similar to SS) die cast housing with powder coat (NEMA 4/4X) Option: Stainless steel (NEMA 4/4X), not available KWG, MR231 and Draw Wire models				
Operating Temperature	-30°C to +70°C		-30°C to +70°C Special High and Low Temperature Models Available		-20°C to +60°C	

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98-0221-06-A
[QR Code to Limit Switches](#)



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