

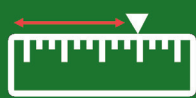
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Electrical Product Guide

Our EM Sensors and Controls:



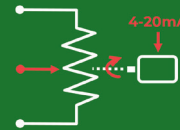
**Rotary
Position**



**Linear
Position**



**Cam
Switches**



**Motorized
Potentiometers**

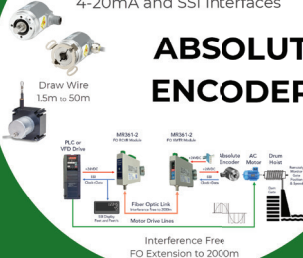


**Handheld
Pendants**

Electromechanical Series

Rotary and Linear
Single Turn and Multi-Turn
4-20mA and SSI Interfaces

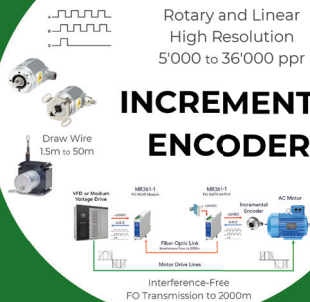
ABSOLUTE ENCODERS



Electromechanical Series

Rotary and Linear
High Resolution
5'000 to 36'000 ppr

INCREMENTAL ENCODERS



MR361 Series

MV Drives, Conveyors,
Dam Gates, etc.

Fiber Optic Immunity Series

Without FO
With MR361

**Extend
SSI Absolute
& Incremental
Encoders,
up to 2000m**



Electromechanical Series

High Performance
Harsh Environments
Size 20mm to 125mm

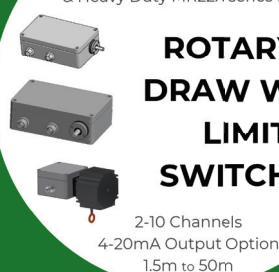
BRUSHLESS RESOLVERS



Electromechanical Series

General Purpose KWG series IP65
& Heavy Duty MR22X series IP66

ROTARY & DRAW WIRE LIMIT SWITCHES



Electromechanical Series

Strain Gauge-Based
Force Sensors, 2mV/V

SMART BRACKET FORCE SENSORS



FLIP BOOKLET for Fiber Optic Products

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innovative manufacturers in
this category.***

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and can also be purchased
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MICRONOR[®]

mechanical products



What is an Encoder?

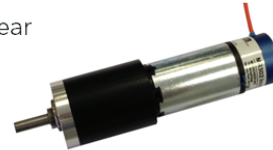
In motion control systems, encoders are self-contained digital feedback devices providing real-time motion information:

- Position (Continuous or Discrete)
- Velocity
- Acceleration



Encoder Product Categories are combinations of the following:

- Incremental or Absolute
- Rotary or Linear
- Resolution
- Optical
- Fiber Optic
- Magnetic
- Inductive
- Capacitive
- Laser



1

All Different Shapes, Sizes, Form Factors

The encoder "landscape" is very fragmented:

Solid Shaft, Hollow Shaft, Measuring Wheel, Draw Wire, Ball Screw, Linear Scale, Linear Guided, Piston, Panel Encoder, Manual Pulse Generator



LVDT, RVDT, & Resolvers are "Analog" Encoders that work Inductively like a Transformer

2

Overview of Electrical Encoders and Resolvers

	Absolute Encoder	Incremental Encoder	Resolver
Type	Absolute Encoder Binary Coded 8-bit Disk Position Output Value Format depends on Output Interface Other Interface/Protocols: Analog, Parallel, Profibus, Ethernet, etc. Resolution: # of bits	Incremental Encoder A/B/Index Quadrature Disk Quadrature Output Pulses Resolution: # of pulses per revolution	
Theory	Internal circuitry generates position as a digital word or D/A analog output. Speed derived from beginning and ending position over time period.	A/B Quadrature Pulses can be tracked and counted to determine relative position from initial reference point.	Excitation Signal applied to Rotor. Sine and Cosine amplitudes provide absolute position over 360°.
Pros	• Medium Cost • Easy to use • Variety of interfaces options	• Low Cost • Easy to interface	• Ideal for extreme temperatures • High Cost
Cons	• Relative Temperature Difference • Poor Long-Term Stability	• Pulses susceptible to Electrical Noise • Position info lost when loses power	• Requires external Resolver A/D interface

3

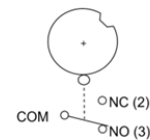
HYBRID SOLUTION – Extending The Reach of EM Encoders with Interference-Free FO Transmission

Model	MR361-1 Series FO Extender System For EM Incremental Encoder	MR361-2 Series FO Extender System For EM Absolute Encoder
Technical		
Theory	At the XMT end, A/B/Z and 4 th Channel signals are multiplexed at high rate onto optical fiber. Signals are demultiplexed at RCVR end.	At XMT end, SSI Clock and Data signals are multiplexed onto single fiber. Signals are demultiplexed at RCVR end.
Pros	- Interference-free transmission up to 2000m using OM1/OM2/OM3 fiber 3 separate models for different encoder/output types	- Interference-free transmission up to 2000m using OM1/OM2/OM3 fiber 3 separate models for different SSI encoder types
Cons	N/A	N/A

Overview of Limit Switches

	Geared Limit Switch	Draw Wire (Linear) Limit Switch
Type		
Theory	Gear ratio is specified by user according to # of turns of input shaft corresponding to full and one turn of the internal cam switch.	Geared Limit Switch module incorporates gear ratio corresponding to full travel of Draw Wire Module (1-50m).
Purpose	Discrete limits, i.e., fully open, partially open, partially closed, fully closed, cable twist	Draw Wire Module converts Geared Limit Switch for monitoring linear travel.

Cam Switch



5

Know Your Requirements

Model	Incremental Encoder/Resolver	Absolute Encoder/Resolver
Information Required	Rotary or Linear Motion? If Linear Motion, Length of Travel? Solid Shaft or Hollow Shaft? Shaft or Bore Size required? Mounting requirements? Resolution Required? Pulses Per Revolution (PPR) or Pulses Per Distance? Max Speed? Operating Voltage available (5V or 10-30V)? Output Driver Requirements (RS422 or HTL/PushPull)? Connector Interface or Pigtail? Operating Temperature Range? Steady State or Dynamic Temperature Environment? Hazardous Location? Ex Classification? Radiation environment? IP rating required? 	Rotary or Linear Motion? If Linear Motion, Length of Travel? Solid Shaft or Hollow Shaft? Shaft or Bore Size required? Mounting requirements? Resolution Required? Units=Bits (13-bits=8192 Counts) Pulses Per Revolution (PPR) or Pulses Per Distance? Max Speed? Operating Voltage available (5V or 10-30V)? Output Driver requirements (RS422 or HTL/PushPull)? Connector Interface or Pigtail? Operating Temperature Range? Steady State or Dynamic Temperature Environment? Hazardous Location? Ex Classification? Radiation environment? IP rating required? 

6

ELECTROMECHANICAL ABSOLUTE ENCODERS & FO EXTENDER QUICK GUIDE

PRODUCT MODEL						
	AO Output Size 36mm	AO Output Size 58mm	SSI Interface Size 58mm	DIST-ENC-HT Encoder Cables	570T SSI Encoder Position Display	MR361-2 FO Extender for SSI Encoders
Description	AO Abs Encoder, 0-10V or 4-20mA	AO Abs Encoder, 0-10V or 4-20mA	MT Abs Encoder, 0-10V or 4-20mA	Rugged, high temperature twisted-pair encoder cables for EMI/RFI resistance and indoor/outdoor use	Touchscreen Programmable Multifunctional Color LCD	FO XMTR/RCVR, provides interference-free extension of SSI Absolute Encoders
Resolution (ppr) Options	12 bit (4096)		ST 10-17 bits MT up to 65K revs	Encoder dependent	Single or Dual Line Display Modes	SSI, 1-99 bits, Clock = max 1 MHz
Shafted Models (Shaft OD Options)	ESAV361 (ST) ESAV36 (MT) (6/8/10mm/0.25")	ESAV58 (6/10mm)	ESAX58 (ST) ESAMX58 (MT) (6/8/10mm/0.25")	Lengths 1-30m	Display Position and/or Speed, Standard & Custom Units	Compatible with multimode OM1 (62.5/125) and OM2/OM3 (50/125) Up to 2000m
Hollow Shaft Models (Bore ID Options)	ENAV361 (ST) ENAV36 (MT) (6/8/10mm/0.25")	Not Available	ENAX58 (ST) ENAMX58 (MT) (6/8/10mm/0.25")	---	Supports both SSI Master and Slave Modes	5V or 10-30V operation
Output Options	0-10V or 4-20mA, Programmable MIN/MAX Specify CW or CCW AO Direction		SSI/BISS Programmable SET & DIR Optional A/B or Sin/Cos Incremental Outputs	Compatible with Micronor Incremental and Absolute Encoders	Options: Analog Output (0-10V or 4-20mA), RS232, RS485, Relays, Switching/Limit Settings, Wire Break Monitor	25-bit SSI Clock/Data Interface
Connectivity Options	Pigtail or DIN M12-5C		Pigtail or DIN M23-12C	DIN M23-12C on one end	Screw terminals	Simplex ST
Power Supply Option	10-30V DC	10-30V DC	10-30V DC	---	18-30V DC	5V or 10-30V DC
Operating Temperature	-40°C...+85°C	-40°C...+85°C	-40°C...+90°C	-40°C...+135°C	-20°C...+60°C	-10°C...+70°C
STOCK Models	---	Also for use with Draw Wire Modules (1-50m)	Also for use with Draw Wire Modules (1-50m)	DIST-ENC-HT-01 (1m) DIST-ENC-HT-15 (15m)	570T.010.3A4	For use with 10-30VDC SSI Absolute Encoders: MR361-2-0-0-0 (XMTR) MR361-2-1-0-0 (RCVR)
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ELECTROMECHANICAL INCREMENTAL ENCODER & FO EXTENDER QUICK GUIDE

PRODUCT MODEL						
	ESI58HA ENI58HA	ESIX50 ENIX50	ESI70EX ENI70EX	DIST-ENC-HT Encoder Cables	571T Incremental Encoder Counter Display	MR361-1 FO Extender for EM Encoders
Description	High Resolution to 36'000 ppr	Heavy Duty Ex 2/22	ATEX/IECEx Ex d IIC T4 - T6 Gb Ex tb IIC T135°C - T85°C Db	Rugged, high temperature twisted-pair encoder cables for EMI/RFI resistance and indoor/outdoor use	Touchscreen Programmable Multifunctional Color LCD	FO XMTR/RCVR, provides interference-free extension of FO incremental encoders
Resolution (ppr) Options	6'000-36'000	1-5'000ppr	25-5'000ppr	Encoder dependent	Single or Dual Line Display Modes	4-Channels, typically for A/B or A/B/Z encoder interfaces, Max 400kHz
Size Options	Size 58mm	Size 50mm-63.5mm	Size 70mm	Lengths 1-30m	Display Speed or Position Counter, Standard & Custom Units	Compatible with multimode OM1 (62.5/125) and OM2/OM3 (50/125)
ESI Shaft Options	6/10mm	6/10mm	10/12mm	---	---	Up to 2000m
ENI Bore Options	6/8/10/12mm	6/8/10/12mm	12/14mm	---	---	RS422 or HTL option
Output Options	RS422 and HTL/Push-Pull			Compatible with Micronor absolute and incremental encoders	Options: Analog Output (0-10V or 4-20mA), RS232, RS485, Relays, Switching/Limit Settings, Emergency Stop, etc.	Unidirectional channel(s) can transmit other signals – including overspeed limit, emergency stop, etc.
Connectivity Options	Pigtail or DIN M23-12C or DIN M12-5C			DIN M23-12C on one end	Screw terminals	Simplex ST
Power Supply Option	5V or 10-30V DC NOTE: We recommend 10-30VDC Push-Pull for new applications			---	18-30V DC	5V or 10-30V DC
Operating Temperature	IP40: -20°C...+105°C IP66: -20°C...+90°C	-40°C...+85°C	-40°C...+60°C	-40°C...+135°C	-40°C...+60°C	For use with 10-30VDC HTL Encoders: MR361-1-0-3-0 (XMTR) MR361-1-1-3-0 (RCVR)
RECOMMENDED QUICK SHIP PRODUCTS	ESI58HA.1265.36000	---	---	DIST-ENC-HT-01 (1m) DIST-ENC-HT-15 (15m)	571T.010.3A4	
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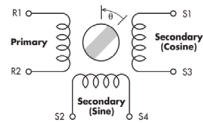
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BRUSHLESS RESOLVERS QUICK GUIDE – FOR HARSH ENVIRONMENTS



PRODUCT	RE2010 Smallest, Size 08	RE3620 Size 15	RE5032 Size 20	RE7557 Size 30	RE15L Size 15	R11XJ107 R11XJ107N Size 11 Shafted Resolver
Description	Brushless Frameless Resolver High Reliability, Innovative Solid Metal, Magnetically Shaped Rotor Ideal for Dynamic Environments (including Aerospace, Space, Heavy Machinery) Standard Gap=0.3mm, Custom Gap to 1mm available				General Purpose, Brushless Frameless Resolver with Wired Rotor	Precision shafted brushless resolver with integral bearings
Outer Diameter	20mm	36mm	50mm	75mm	36mm	1.1" or 28mm
Bore or Shaft	4mm	10mm	20mm	46mm	10mm	0.120" Shaft
Excitation Frequency	5/10 kHz	5/10 kHz	5/10 kHz	5/10 kHz	5/10 kHz	5 kHz
Transformation Ratio (TR)	0.5	0.5	0.5	0.5	0.5	0.95
Pole Pairs	Single Speed	Single Speed	Single Speed	Single Speed	Single Speed	Single Speed
Accuracy	60 arcmin	60 arcmin	60 arcmin	60 arcmin	10 arcmin	7 arcmin
Max Speed (rpm)						
• Std Speed	150'000 rpm	100'000 rpm	60'000 rpm	25'000 rpm	20'000 rpm	20'000 rpm
• High Speed	160'000 rpm	120'000 rpm	65'000 rpm	28'000 rpm		
Temperature Rating						
• Std Temp	-40°C to +135°C	-40°C to +135°C	-40°C to +135°C	-40°C to +135°C	-55°C to +155°C	-40°C to +125°C
• High Temp	-70°C to +200°C	-70°C to +200°C	-70°C to +200°C	-70°C to +200°C		
• Cryogenic	-196°C to +200°C					
Mounting Note	For thermal interference fit onto stainless steel shaft, order High Temperature/High Speed Version (rotor material is SS, provides TC match to SS shaft)				---	---
Outgassing Note	For applications requiring low outgassing, order High Speed version				Not Available	Order R11XJ107N
Radiation Resistance	Order High Temperature Version				Not Available	Order R11XJ107N

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98-0FBU-26-A1
[QR Code to EM Resolvers](#)



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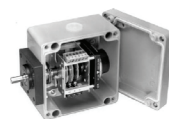
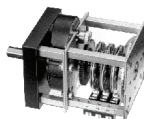
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MICRONOR® AG ROTARY-LINEAR LIMIT SWITCHES

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



PRODUCT MODEL	KW60 Open Frame	KWG120 GP, Single Shaft	MR221 HD, Single Shaft	MR222 HD, Dual Ended Shaft	KWG120W GP, DrawWire/Linear	MR221W 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	KWG120: 1-5 KWG160: 6-10	2-8	2-8	KWG120W: 1-5 KWG160W: 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	-1 Transducer-Based	-1 Transducer-Based -E Encoder-Based	-1 Transducer-Based -E Encoder-Based	-1 Transducer-Based	-1 Transducer-Based -E Encoder-Based
Housing /IP standard and option	Standard= Proprietary copper free aluminum alloy (corrosion resistance similar to SS) die cast housing with powder coat (NEMA 4/4X) Special Option= Stainless steel (NEMA 4/4X), not available for KW, KWG and Draw Wire models					
Operating Temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-20°C to +60°C	-20°C to +60°C

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



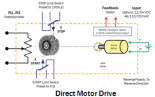
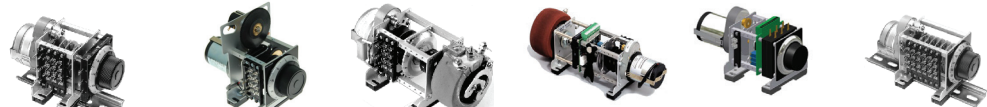
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EM MOTORIZED POTENTIOMETERS & CAM TIMERS QUICK GUIDE

						
	MPP, MPR MPF, MPC 1-Turn MOP	MPZ, MPRZ 10-Turn MOP	MPPS High Power MOP	MR266 PLC-Compatible High Power Motor Pot	MR267 PLC-Compatible Standard 5W Motor Pot bv	NEB Cam Timer 10s-24hrs 2-24 CH
Description	1-turn Motorized Potentiometers, Direct Motor Drive		High Wattage 1-Turn MOP 20W-600W, Direct Motor Drive	For automating manual potentiometer controls via 0-10V or 4-20mA analog output		Motorized Cam Timer
Models	MPP: DIN Rail Mount MPR: DIN Rail End-Mount MPF: Front Panel Mount MPC: DIN Mount Enclosure	MPZ: DIN Rail Mount MPRZ: DIN Rail End-Mount	DIN Rail Mount	DIN Rail Mount Only	-1: Front Panel Mount -2 DIN Rail Mount	DIN Rail Mount
Potentiometer Options	DPC series 100 to 100K Ohms 5W	DPZ series 100 to 50K Ohms 2W	DPM series 2 to 200K Ohms 20/60/170/300/600 W	DPM series 2 to 200K Ohms 20/60/170/300/600W	DPC series 100 to 100K Ohms 5W	---
Limit Switch Options	Basic= A/E Single Cam Limit Switches Enhanced: NK Double Cam Limit Switches		No Limit Switches	No Limit Switches		2-24 Channels NK Double Cams
Timing Cycle Options	10s – 24hrs		10s – 24hrs	---		10s – 24hrs
Motor Options	Direct Motor Drive 12 VDC, 24 VDC, 220 VAC/50Hz, 220VAC/60Hz		---	24VDC Operation		12 VDC, 24 VDC, 48VAC, 220VAC
Controller Options	For DC Motors Only: PRG: Quick Stopper, PRSG: Speed Control Only (1:8)		---	MR267 Only XX=22=4-20mA XX=44=0-10V	MR267 Only XX=22=4-20mA XX=44=0-10V	---
Connectivity Options	Use DIN Female Contacts 2.8 x 0.5 mm		---	Phoenix Combicon Screw Terminals	Phoenix Combicon Screw terminals	Use DIN Female Contacts
Operating Temperature	---		-15°C ..+65°C, IP00	-15°C ..+65°C, IP00		-15°C ..+65°C, IP00
RECOMMENDED QUICK SHIP PRODUCTS	MPP series MPF series	MPZ series	MPPS series	MR266-XX-YYZ	MR267-2-XX-ZZ MR267-2-XX-ZZ	NEB Series

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MOP=Motorized Potentiometer

98-0MOP-01-B
[QR Code to MOPS](#)

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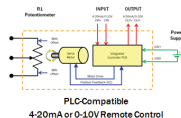
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EM PRODUCTS WITH 4-20mA INTERFACES QUICK GUIDE

						
	ESAV361 (ST) ENAV361 (ST) ESAV36 (MT) ENAV36 (MT) Size 36mm / 1.5" AO Encoder	ESAV58 (MT) Size 58mm AO Encoder	KWG120/MR22X Rotary & Draw Wire Limit Switches With 4-20mA Output	MR266 PLC-Compatible High Power Motor Pot	MR267 PLC-Compatible Standard 5W Motor Pot	9400.00.522 Panel Mount 4-20mA Manual Control
Description	Size 36mm encoders with programmable AO Output	Size 58mm encoders with programmable AO Output	General Purpose, Heavy Duty, and Draw Wire Limit Switches	For automating manual potentiometer controls via 0-10V or 4-20mA analog output		2-Wire 4-20mA Panel Mount Manual Control
Models	Shafted: ESAV361, ESAV36 Hollow Shaft: ENAV361, ENAV36	Shafted Only	KWG120 KWG120W Draw Wire MR221 MR221W Draw Wire MR222	DIN Rail or Chassis Mount	-1 Front Panel Mount -2 DIN Rail or Chassis Mount	Front Panel Mount
Analog Output Options	4-20mA or 0-10V	4-20mA or 0-10V	4-20mA Only, Loop Powered	DPM series 2 to 200K Ohms 20/60/170/300/600W	DPC series 100 to 100K Ohms 5W	---
Option1	---	---	---	No Limit Switches	No Limit Switches	---
Option2	---	---	---	---	---	---
Power Requirements	10-30V DC	10-30V DC	---	24VDC Operation	24VDC Operation	---
Controller Options	---	---	---	MR267 Only XX=22=4-20mA XX=44=0-10V	MR267 Only XX=22=4-20mA XX=44=0-10V	Loop Powered. Requires 24-30 VDC
Connectivity Options	DIN M23-12C or Pigtail		---	Phoenix Combicon Screw Terminals	Phoenix Combicon Screw terminals	Phoenix Combicon Screw Terminals
Operating Temperature	-40°C ..+85°C, IP65 or IP67	-40°C ..+85°C, IP65	0°C ..+70°C (with AO Output) IP64 (KWG), IP66 (MR22X)	-15°C ..+65°C, IP00	-15°C ..+65°C, IP00	-15°C ..+65°C, IP00
RECOMMENDED QUICK SHIP PRODUCTS	ESAV, ENAV Series	ESAV58 Series	KWG/MR22X series	MR266-XX-YYZ	MR267-2-XX-ZZ MR267-2-XX-ZZ	9400.00.522

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MOP=Motorized Potentiometer
ST=Single Turn, MT=Multiturn

98-0MOP-02-A
[QR Code to ESAV58](#)

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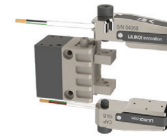
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LILIKOI® SMART BRACKET STRAIN GAUGE SENSORS QUICK GUIDE



PRODUCT MODEL	LILA ONE Strain Gauge Analog Amplifier	SB20 25lbf Force Sensor for 20mm Extrusions	SB30-0002 25lbf Sensor for 30mm Extrusions	SB30-0003 50lbf Sensor for 30mm Extrusions	GR10 Gripper Finger
Description	Analog Amplifier for Strain Gauge Transducers	Force Sensor mounts directly to 20mm T=Slot Extrusions using standard T-Nuts	Force Sensor mounts directly to 30mm T=Slot Extrusions using standard T-Nuts	Force Sensor mounts directly to 30mm T=Slot Extrusions using standard T-Nuts	Mounts on customer supplied Parallel Actuator
No. of Channels	1	Requires separate Strain Gauge Amplifier	Requires separate Strain Gauge Amplifier	Requires separate Strain Gauge Amplifier	Requires separate Strain Gauge Amplifier
Capacity	0-10V	25lb (11.3kg)	25lb (11.3kg)	50lb (22.6kg)	10lb (4.5kg)
Measurement	mV/V 0-10V	mV/V	mV/V	mV/V	mV/V
Precision	Depends on sensor	2mV/V	1.25mV/V	1.25mV/V	2mV/V
Interface	Sensor Connection: +/- Excitation, +/- Signal Interface Connection: Power, Analog Output	+/- Excitation, +/- Signal	+/- Excitation, +/- Signal	+/- Excitation, +/- Signal	+/- Excitation, +/- Signal
Sample Rate/channel	---	Depends on amplifier used	Depends on amplifier used	Depends on amplifier used	Depends on amplifier used
Operating Temperature	0°C to +60°C	-51°C to +71°C (-60°F to +150°F)	-51°C to +71°C (-60°F to +150°F)	-55°C to +200°C (-67°F to +392°F)	-51°C to +71°C (-60°F to +150°F)
Applications	Laboratory or Embedded OEM	20mm Aluminum T-Channel Extrusions used in process automation	30mm Aluminum T-Channel Extrusions used in process automation	30mm Aluminum T-Channel Extrusions used in process automation	Two SBs mounted on opposite corners can monitor load balance on T-Frame
Power Supply	Up to 30V	---	---	---	---
QUICK DELIVERY Part Numbers	LA1	SB20-0004	SB30-0002	SB30-0003	GR10-0006 (single sensor finger only)

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All specifications are subject to change without notice

Contact Micronor Sensors sales for special requirements.

98-LLKI-02-A
[QR Code to Smart Bracket](#)

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*Many of these Electromechanical Sensors & Controls are **Stocked** in Ventura, California. These products can also be ordered from our **Online Store**.*

*For information, quotations, or sales support,
please call us:*

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