

NEWALL

Guide to interfacing Newall Linear Encoders with competitive digital readout displays

We have linear encoders that are capable of interfacing with most displays. This is a partial compatibility list detailing some commonly found models. If you need assistance interfacing with a display that does not appear on this list, please contact Newall Tech Support at 1-800-229-4376.

Display Manufacturer	Display Model #	Compatible Newall Models	Interfacing Notes
Acu-Rite	Any display with a 6-pin round connector	DSG-TT DMG-TT	All Acu-Rite displays with 6-Pin round connectors are single ended TTL. An adapter cable is available to convert the Newall 9-Pin D to the Acu-Rite 6-Pin round (Part # ADA102).
Acu-Rite	Any display with a 9-pin D connector	DSG-TT DMG-TT	All Acu-Rite displays with 9-Pin D connectors (except "Mate" series) are differential TTL. Pinout is same as Newall. Some displays require Newall pin 1 disconnection.
Acu-Rite	Acu-Rite II	DSG-TT DMG-TT	Connector type is 6-pin round. Use adaptor cable # ADA102 to convert Newall 9D to Acu-Rite 6-pin round connector.
Acu-Rite	Acu-Rite III	DSG-TT DMG-TT	Connector on display is 6-pin round (Single ended TTL). An adapter cable is available to convert the Newall 9-Pin D to the Acu-Rite 6-Pin round (Part # ADA102).
Acu-Rite	DRO 100	DSG-TT DMG-TT	Pinout of 9-Pin D connector is the same as Newall's. Pin 1 on Newall's 9-pin D connector must be disconnected. Recommended scale resolution is 10um.
Acu-Rite	DRO 200	DSG-TT DMG-TT	Pinout of 9-Pin D connector is the same as Newall's. Pin 1 on Newall's 9-pin D connector must be disconnected, or the X-axis will not work with our scales.
Acu-Rite	DRO 200E	DSG-TT DMG-TT	Pinout of 9-Pin D connector is the same as Newall's. Pin 1 on Newall's 9-pin D connector must be disconnected, or the X-axis will not work with our scales.
Acu-Rite	EDMvision	DSG-TT DMG-TT	Connector on display is 6-pin round (Single ended TTL). An adapter cable is available to convert the Newall 9-Pin D to the Acu-Rite 6-Pin round (Part # ADA102).
Acu-Rite	Master-G	DSG-TT DMG-TT	Connector on display is 6-pin round (Single ended TTL). An adapter cable is available to convert the Newall 9-Pin D to the Acu-Rite 6-Pin round (Part # ADA102).
Acu-Rite	Master-MP	DSG-TT DMG-TT	Connector on display is 6-pin round (Single ended TTL). An adapter cable is available to convert the Newall 9-Pin D to the Acu-Rite 6-Pin round (Part # ADA102).
Acu-Rite	Master-TP	DSG-TT DMG-TT	Connector on display is 6-pin round (Single ended TTL). An adapter cable is available to convert the Newall 9-Pin D to the Acu-Rite 6-Pin round (Part # ADA102).

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Acu-Rite	Millmate	DSG-TT DMG-TT	"Mate" series displays are the only analog displays ever made by Acu-Rite. The required signal is 11uA. Use adapter cable / signal converter # ADA104 to convert the Newall 9-pin D connector (TTL differential) to the Acu-Rite analog 9-pin D connector (11uA).
Acu-Rite	Millvision	DSG-TT DMG-TT	Connector on display is 6-pin round (Single ended TTL). An adapter cable is available to convert Newall 9-Pin D to the Acu-Rite 6-Pin round (Part # ADA102).
Acu-Rite	Qwikcount II	DSG-TT DMG-TT	Connector on display is 6-pin round (Single ended TTL). An adapter cable is available to convert the Newall 9-pin D to the Acu-Rite 6-pin round (Part # ADA102).
Acu-Rite	Turnmate	DSG-TT DMG-TT	"Mate" series displays are the only analog displays ever made by Acu-Rite. The required signal is 11uA. Use adapter cable / signal converter # ADA104 to convert the Newall 9-pin D connector (TTL differential) to the Acu-Rite analog 9-pin D connector (11uA).
Acu-Rite	Turnvision	DSG-TT DMG-TT	Connector on display is 6-pin round (Single ended TTL). An adapter cable is available to convert the Newall 9-Pin D to the Acu-Rite 6-Pin round (Part # ADA102).
Acu-Rite	VRO-300	DSG-TT DMG-TT	Pinout of 9-Pin D connector is the same as Newall's. Pin 1 on the Newall connector does NOT need to be disconnected. Recommended scale resolution is 10um. Other resolutions can be used, but the user will have to adjust the scale factor parameter setting.
Anilam	Microwizard	DSG-TT DMG-TT	Connector type is 6-pin round. Use adaptor cable # ADA102 to convert Newall 9D to Acu-Rite 6-pin round connector. This display will accept 10um, 5um, 2um, and 1um encoder resolutions.
Anilam	Miniwizard	DSG-TT DMG-TT	Connector type is 6-pin round. Use adaptor cable # ADA102 to convert Newall 9D to Acu-Rite 6-pin round connector. This display will accept 10um, 5um, 2um, and 1um encoder resolutions.
Anilam	Spirit II	DSG-TT DMG-TT	Connector type is 6-pin round. Use adaptor cable # ADA102 to convert Newall 9D to Acu-Rite 6-pin round connector.
Anilam	Superwizard	DSG-TT DMG-TT	Connector type is 6-pin round. Use adaptor cable # ADA102 to convert Newall 9D to Acu-Rite 6-pin round connector. Display is capable of accepting these resolutions: 10um, 5um, 2um, 1um
Anilam	Wizard	DSG-TT DMG-TT	Connector type is 6-pin round. Use adaptor cable # ADA102 to convert Newall 9D to Acu-Rite 6-pin round connector.
Anilam	Wizard 100	DSG-TT DMG-TT	Connector type is 6-pin round. Use adaptor cable # ADA102 to convert Newall 9D to Acu-Rite 6-pin round connector.
Anilam	Wizard 111	DSG-TT DMG-TT	Connector type is 6-pin round. Use adaptor cable # ADA102 to convert Newall 9D to Acu-Rite 6-pin round connector.
Anilam	Wizard 150	DSG-TT DMG-TT	Connector type is 6-pin round. Use adaptor cable # ADA102 to convert Newall 9D to Acu-Rite 6-pin round connector. Display is capable of accepting these resolutions: 10um, 5um, 2um, 1um.
Anilam	Wizard 211	DSG-TT DMG-TT	9-Pin D connector has same pinout as Newall. This display is capable of accepting scale resolutions of 1um and 5um.

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Anilam	Wizard 350	DSG-TT DMG-TT	Connector type is 6-pin round. Use adaptor cable # ADA102 to convert Newall 9D to Acu-Rite 6-pin round connector. Display is capable of accepting these resolutions: 10um, 5um, 2um, 1um.
Anilam	Wizard 350 Plus	DSG-TT DMG-TT	Connector type is 6-pin round. Use adaptor cable # ADA102 to convert Newall 9D to Acu-Rite 6-pin round connector. Display is capable of accepting these resolutions: 10um, 5um, 2um, 1um.
Anilam	Wizard 450	DSG-TT DMG-TT	9-Pin D connector has same pinout as Newall. This display will accept the following resolutions: 0.5um, 1um, 2um, 5um, 10um.
Anilam	Wizard 800	DSG-TT DMG-TT	Connector type is 6-pin round. Use adaptor cable # ADA102 to convert Newall 9D to Acu-Rite 6-pin round connector. Display is capable of accepting these resolutions: 10um, 5um, 2um, 1um.
Anilam	Wizard 900	DSG-TT DMG-TT	9-Pin D connector has same pinout as Newall.
Anilam	Wizard 900E	DSG-TT DMG-TT	9-Pin D connector has same pinout as Newall.
Anilam	Wizard Lathe	DSG-TT DMG-TT	Connector type is 6-pin round. Use adaptor cable # ADA102 to convert Newall 9D to Acu-Rite 6-pin round connector. Display is capable of accepting these resolutions: 10um, 5um, 2um, 1um.
Fagor	NV 10	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	NV 100	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	NV 101	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	NV 20	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	NV 200	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	NV 201	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	NV 300	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	NV 300E	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	NV 300T	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	NV 301	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	NV 301E	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	NV 301T	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	NVP 200	DSG-TT DMG-TT	Use adaptor cable # 307-83090.

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Fagor	NVP 201	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	NVP 300	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	NVP 301	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	NVP-300TS	DSG-TT DMG-TT	Use adaptor cable # 307-83090.
Fagor	V 11	DSG-TT DMG-TT	Connector type is 7-pin round. Use adaptor cable # 307-81260.
Fagor	V 21	DSG-TT DMG-TT	Connector type is 7-pin round. Use adaptor cable # 307-81260.
Fagor	VN 101	DSG-TT DMG-TT	Connector type is 7-pin round. Use adaptor cable # 307-81260.
Fagor	VN 201	DSG-TT DMG-TT	Connector type is 7-pin round. Use adaptor cable # 307-81260.
Fagor	VN 301	DSG-TT DMG-TT	Connector type is 7-pin round. Use adaptor cable # 307-81260.
Fagor	VN 301E	DSG-TT DMG-TT	Connector type is 7-pin round. Use adaptor cable # 307-81260.
Fagor	VN 301T	DSG-TT DMG-TT	Connector type is 7-pin round. Use adaptor cable # 307-81260.
Fagor	VNP 201	DSG-TT DMG-TT	Connector type is 7-pin round. Use adaptor cable # 307-81260.
Fagor	VNP 301	DSG-TT DMG-TT	Connector type is 7-pin round. Use adaptor cable # 307-81260.
Fagor	VNP 301E	DSG-TT DMG-TT	Connector type is 7-pin round. Use adaptor cable # 307-81260.
Gurley Precision Instruments	Pointfinder 1500	Not Compatible	
Gurley Precision Instruments	Pointfinder 2000	Not Compatible	
Gurley Precision Instruments	Pointfinder 3000	Not Compatible	
Gurley Precision Instruments	Pointfinder 50	Not Compatible	
Heidenhain	ND 220	DSG-EM DMG-EM	Analog 11uA signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 221	DSG-EM DMG-EM	Analog 11uA signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 221B	DSG-EM DMG-EM	Analog 11uA signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 231	DSG-EM DMG-EM	Analog 11uA signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 261	DSG-EM DMG-EM	Analog 11uA signal. Angle display. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.

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Heidenhain	ND 261V	DSG-EM DMG-EM	Analog 11uA signal. Angle display. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 281B	DSG-EM DMG-EM	Analog. This display accepts 1Vp-p and 11uA signals. Length & angle capable. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 282	DSG-EM DMG-EM	Analog 11uA signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 510	DSG-EM DMG-EM	Analog 11uA signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 520	DSG-EM DMG-EM	2-axes mill display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 530	DSG-EM DMG-EM	2-axes lathe display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 550	DSG-EM DMG-EM	Analog 11uA signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 560	DSG-EM DMG-EM	3-axes mill display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 710	DSG-EM DMG-EM	Two axes mill display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 720	DSG-EM DMG-EM	Two axes mill display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 730	DSG-EM DMG-EM	Two axes lathe display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 750	DSG-EM DMG-EM	Three axes mill display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 760	DSG-EM DMG-EM	Three axes mill display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 770	DSG-EM DMG-EM	Three axes lathe display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 780	DSG-EV, DSG-EM, DMG-EV, DMG-EM	Analog 11uA or 1vpp input signal. Use adaptor cable # 307-85836.
Heidenhain	ND 920	DSG-EM DMG-EM	Mill display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 930	DSG-EM DMG-EM	Lathe display. Analog 11uA signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 960	DSG-EM DMG-EM	Mill display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	ND 970	DSG-EM DMG-EM	Lathe display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	NDP 281	DSG-EM DMG-EM	Analog. This display accepts 1Vp-p OR 11uA signals. Length & angle capable. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	Positip 880	DSG-EV, DSG-EM, DMG-EV, DMG-EM	Analog 11uA or 1vpp input signal. Use adaptor cable # 307-85836.
Heidenhain	Positip 855	DSG-EM DMG-EM	Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	VRZ 401	DSG-EM DMG-EM	Single axis display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	VRZ 404	DSG-EM DMG-EM	Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	VRZ 405	DSG-EM DMG-EM	Single axis display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	VRZ 450	DSG-EM DMG-EM	Single axis display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	VRZ 480	DSG-EM DMG-EM	Single axis display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.

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Heidenhain	VRZ 710	DSG-EM DMG-EM	Two axes basic display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	VRZ 720	DSG-EM DMG-EM	Two axes display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	VRZ 730	DSG-EM DMG-EM	Two axes lathe display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	VRZ 750	DSG-EM DMG-EM	Three axes basic display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	VRZ 760	DSG-EM DMG-EM	Three axes display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Heidenhain	VRZ 770	DSG-EM DMG-EM	Three axes lathe display. Analog 11uA input signal. Use adaptor cable # ELD09D00109H1 when Newall encoder is ordered with 9D connector.
Metronics	QC-120	DSG-TT DMG-TT	
Metronics	Quadra-Chek 2000 Series	DSG-TT DMG-TT	This display will accept 10um, 5um, 2um, 1um, 0.5um, and 0.2um resolutions. An adapter cable is available to convert the Newall 9-Pin D to the 6-Pin round connector found on this display (Part # ADA102).
Metronics	Quadra-Chek 2200 (QC-2200)	DSG-TT DMG-TT	This display will accept 10um, 5um, 2um, 1um, 0.5um, and 0.2um resolutions. An adapter cable is available to convert the Newall 9-Pin D to the 6-Pin round connector found on this display (Part # ADA102).
Metronics	Quadra-Chek 2203 (QC-2203)	DSG-TT DMG-TT	This display will accept 10um, 5um, 2um, 1um, 0.5um, and 0.2um resolutions. An adapter cable is available to convert the Newall 9-Pin D to the 6-Pin round connector found on this display (Part # ADA102).
Metronics	Quadra-Chek 2205 (QC-2205)	DSG-TT DMG-TT	This display will accept 10um, 5um, 2um, 1um, 0.5um, and 0.2um resolutions. An adapter cable is available to convert the Newall 9-Pin D to the 6-Pin round connector found on this display (Part # ADA102).
Metronics	Quadra-Chek 2210 (QC-2210)	DSG-TT DMG-TT	This display will accept 10um, 5um, 2um, 1um, 0.5um, and 0.2um resolutions. An adapter cable is available to convert the Newall 9-Pin D to the 6-Pin round connector found on this display (Part # ADA102).
Metronics	Quadra-Chek 2213 (QC-2213)	DSG-TT DMG-TT	This display will accept 10um, 5um, 2um, 1um, 0.5um, and 0.2um resolutions. An adapter cable is available to convert the Newall 9-Pin D to the 6-Pin round connector found on this display (Part # ADA102).
Metronics	Quadra-Chek 2215 (QC-2215)	DSG-TT DMG-TT	This display will accept 10um, 5um, 2um, 1um, 0.5um, and 0.2um resolutions. An adapter cable is available to convert the Newall 9-Pin D to the 6-Pin round connector found on this display (Part # ADA102).
Micro-Vu	Q16	DSG-TT DMG-TT	Connector on display is 6-pin round (Single ended TTL). An adapter cable is available to convert the Newall 9-pin D to the Micro-Vu 6-pin round (Part # ADA102).
Mitutoyo	AL Counter #164-654 through 164-659	DSG-TT DMG-TT	Connector is 6-pin round. Use adaptor cable # 307-81280.

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Mitutoyo	ALC Counter #164-771 through 164-776, and 164-780 through 164-782	Not Compatible	
Mitutoyo	ALC Counter #164-777 through 164-779	DSG-TT DMG-TT	Connector is 6-pin round. Use adaptor cable # 307-81280.
Mitutoyo	APL Counter #164-660 through 164-665	DSG-TT DMG-TT	Connector is 6-pin round. Use adaptor cable # 307-81280.
Mitutoyo	FLC Counter - #164-831 through 164-833	DSG-TT DMG-TT	Connector is 6-pin round. Use adaptor cable # 307-81280.
Mitutoyo	FLC Counter #164-821 through 164-826 and 164-834 through 164-836	Not Compatible	
Mitutoyo	FLC-2A #164-841, 164-842, and 164-852	Not Compatible	
Mitutoyo	FLC-2A #164-851	DSG-TT DMG-TT	Connector is 6-pin round. Use adaptor cable # 307-81280.
Mitutoyo	FLD Counter # 164-853 through 164-856	DSG-TT DMG-TT	Connector is 6-pin round. Use adaptor cable # 307-81280.
Mitutoyo	FLD Counter #164-843 through 164-850 and 164-857 through 164-860	Not Compatible	
Mitutoyo	FLE Counter #164-861	DSG-TT DMG-TT	Newall encoders are only compatible with the X and Y axes on this display. Connector is 6-pin round. Use adaptor cable # 307-81280.
Mitutoyo	FLL Counter #164-862, 164-863, and 164-865	Not Compatible	
Mitutoyo	FLL Counter #164-864	DSG-TT DMG-TT	Connector is 6-pin round. Use adaptor cable # 307-81280.
Mitutoyo	GLD Counter #164-301 through 164-308	Not Compatible	
Mitutoyo	GM Counter	DSG-TT DMG-TT	Connector is 6-pin round. Use adaptor cable # 307-81280.
Mitutoyo	KA Counter	DSG-TT DMG-TT	Adaptor cable # 307-81280 and signal converter # ADA207 are required. Most scales are 5um resolution.

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Mitutoyo	KC Counter	DSG-TT DMG-TT	Adaptor cable # 307-81280 and signal converter # ADA207 are required. Most scales are 5um resolution.
Mitutoyo	KL Counter	DSG-TT DMG-TT	Adaptor cable # 307-81280 and signal converter # ADA207 are required. Most scales are 5um resolution.
Mitutoyo	KLL Counter	DSG-TT DMG-TT	Adaptor cable # 307-81280 and signal converter # ADA207 are required. Most scales are 5um resolution.
Mitutoyo	KM Counter	DSG-TT DMG-TT	Adaptor cable # 307-81280 and signal converter # ADA207 are required. Most scales are 5um resolution.
Mitutoyo	KS Counter	DSG-TT DMG-TT	Adaptor cable # 307-81280 and signal converter # ADA207 are required. Most scales are 5um resolution.
Mitutoyo	PL Counter #164-251, 164-253, and 164-255	Not Compatible	
Mitutoyo	PL Counter #164-252, 164-254, and 164-256	DSG-TT DMG-TT	Connector is 6-pin round. Use adaptor cable # 307-81280.
Mitutoyo	PL Counter #164-256	DSG-TT DMG-TT	
Mitutoyo	PL-EDM #164-295	DSG-TT DMG-TT	Connector is 6-pin round. Use adaptor cable # 307-81280.
Mitutoyo	PLL Counter #164-288	DSG-TT DMG-TT	Connector is 6-pin round. Use adaptor cable # 307-81280.
Mitutoyo	PM Counter #164-272, 164-274, and 164-276	DSG-TT DMG-TT	Connector is 6-pin round. Use adaptor cable # 307-81280.
Mitutoyo	PM-L Counter #164-261, 164-263, and 164-265	Not Compatible	
Mitutoyo	PM-L Counter #164-262, 164-264, 164-266 and 164-272 through 164-276	DSG-TT DMG-TT	Connector is 6-pin round. Use adaptor cable # 307-81280.
Mitutoyo	UDR-100 Counter	Not Compatible	
Mitutoyo	UDR-220 Counter	Not Compatible	
Omron	H7AN-4DM	DSG-TT DMG-TT	Interpolation factor is 1. Counter only counts the trailing edge of the TTL signal. Max counts per second: 3000
QMS (Quality Measurement Systems)	Q800	DSG-TT DMG-TT	Plastic 8-pin round connector

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Red Lion	Gemini 1000 (Model # GEM1)	DSG-TT DMG-TT	This display only provides +12VDC for encoders. User will have to supply +5VDC for Newall Encoder.
Red Lion	Gemini 2000 (Model # GEM2)	DSG-TT DMG-TT	This display only provides +12VDC for encoders. User will have to supply +5VDC for Newall Encoder.
Red Lion	Paxi - 1/8 DIN Counter / Rate Panel Meter	DSG-TT DMG-TT	This display only provides +12VDC for encoders. User will have to supply +5VDC for Newall Encoder.
Sargon	All Sargon DRO's with 25-Pin D Connector	DSG-TT DMG-TT	Use adaptor cable # ADA106.
Sargon	650	DSG-TT DMG-TT	Single ended TTL. Connector type on display is 25-pin D. Use adaptor cable # ADA106.
Sargon	652	DSG-TT DMG-TT	Single ended TTL. Connector type on display is 25-pin D. Use adaptor cable # ADA106.
Sargon	653	DSG-TT DMG-TT	Single ended TTL. Connector type on display is 25-pin D. Use adaptor cable # ADA106.
Sargon	660	DSG-TT DMG-TT	Single ended TTL. Connector type on display is 25-pin D. Use adaptor cable # ADA106.
Sargon	700	DSG-TT DMG-TT	Single ended TTL. Connector type on display is 25-pin D. Use adaptor cable # ADA106.
Sargon	700 EDM	DSG-TT DMG-TT	Single ended TTL. Connector type on display is 25-pin D. Use adaptor cable # ADA106.
Sargon	700L	DSG-TT DMG-TT	Single ended TTL. Connector type on display is 25-pin D. Use adaptor cable # ADA106.
Sargon	722	DSG-TT DMG-TT	Single ended TTL. Connector type on display is 25-pin D. Use adaptor cable # ADA106.
Sargon	900 Comp	DSG-TT DMG-TT	Single ended TTL. Connector type on display is 25-pin D. Use adaptor cable # ADA106.
Sargon	900M	DSG-TT DMG-TT	Single ended TTL. Connector type on display is 25-pin D. Use adaptor cable # ADA106.
Sokki	DU0000 Series	Not Compatible	
Sokki	DU100 Series	Not Compatible	
Sokki	DU1003	Not Compatible	
Sokki	DU200 Series	Not Compatible	
Sokki	DU300 Series	Not Compatible	
Sokki	DU800 Series	Not Compatible	
Sokki	DU900 Series	Not Compatible	
Sony	LH-30	Not Compatible	
Southwestern Industries	Trak 101	SHG-TT MHG-TT	These linear encoders can be ordered with the Southwestern Industries connector on the end of the cable.

Display Manufacturer	Display Model #	Compatible Newall Models	Interfacing Notes
Southwestern Industries	Trak 102	SHG-TT MHG-TT	These linear encoders can be ordered with the Southwestern Industries connector on the end of the cable.
Southwestern Industries	Trak 103	SHG-TT MHG-TT	These linear encoders can be ordered with the Southwestern Industries connector on the end of the cable.
Southwestern Industries	TRAK TRM	SHG-TT MHG-TT	These linear encoders can be ordered with the Southwestern Industries connector on the end of the cable.