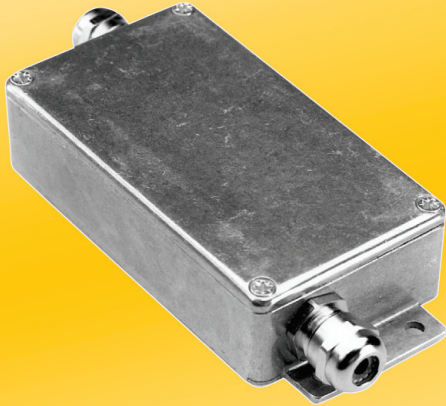


RX/TX Converter



RX/TX Converter

Ordering Information (Specify stock # when ordering)

Differential = A, A', B, B', Z, Z'
Single Ended = A, B, Z

Stock #	Channel 1		Channel 2	
	INPUT Differential Line Receiver-MAX3095	OUTPUT Single Ended Push Pull Output-7272	INPUT Single Ended-7272	OUTPUT Differential Line Driver-7272
100020-1	5 V	Vcc	5V, OC ¹	Vcc
100020-2	5 V	Vcc	5V, OC ¹	5V
100020-3	5 V	Vcc	5V ²	Vcc
100020-4	5 V	Vcc	5V ²	5V
100020-5	6-12V	Vcc	5V, OC ¹	Vcc
100020-6	6-12V	Vcc	5V, OC ¹	5V
100020-7	6-12V	Vcc	5V ²	Vcc
100020-8	6-12V	Vcc	5V ²	5V
100020-9	13-24V	Vcc	5V, OC ¹	Vcc
100020-10	13-24V	Vcc	5V, OC ¹	5V
100020-11	13-24V	Vcc	5V ²	Vcc
100020-12	13-24V	Vcc	5V ²	5V

- 1 OC- Open Collector input designed with a 2k pull-up resistor for an open collector output encoder or device.
- 2 Inputs can be from devices with pull-up, push-pull or TTL type outputs.
- 3 Vcc should range between 5-24 VDC.

Features

The RX/TX Converter converts a Push-Pull or NPN encoder output to an RS422 compatible differential Line Driver output. In addition, it will also convert Line Driver/RS422 encoder output, to single ended signals (Push-Pull) for compatibility with certain PLC's.

Each converter has two independent channels:

Channel 1 is equipped with a differential Line Receiver on the input. It then converts these differential signals (A, A', B, B', Z, Z') to Push-Pull output signals (A, B, Z), with an amplitude equivalent to Vcc.

Channel 2 will convert single ended signals from a Push-Pull or NPN Open Collector encoder to Differential Line Driver signals. Differential Line Driver signals include complementary outputs A', B', and Z' which offer greater immunity to electrical noise, signal distortion, and interference, especially with long cable runs.

Applications

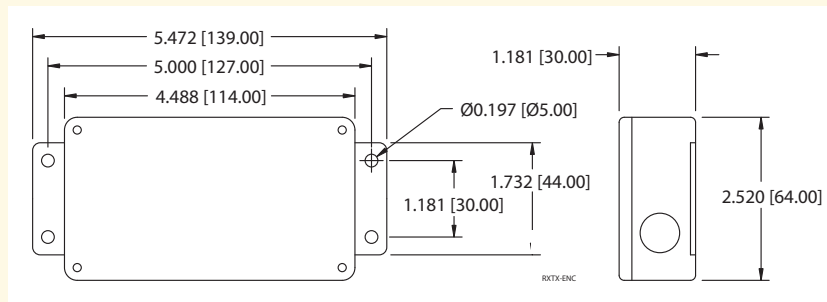
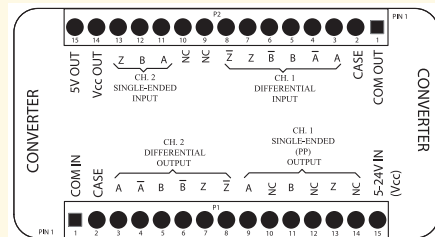
- To provide differential signals for data transmission over long distances between a push-pull, or NPN open collector transmitter and receiver.
- To enable devices with different output/input circuits to be connected.
- To properly terminate differential signals to eliminate/reduce signal distortions.

Specifications

Supply Source (Vcc).....	5 to 24 VDC
Current Consumption	20 mA max (plus encoder and output load requirements)
Max Frequency.....	Up to 1 MHz
Enclosure.....	IP54 (dust proof)
Earth Circuit	Grounded to Case
Input Voltage.....	Channel 1: 24 VDC Max Diff Channel 2: 5 VDC Max
Output Voltage.....	Channel 1: Vcc Channel 2: 5 VDC or Vcc
Output Current.....	30 mA/Channel Max

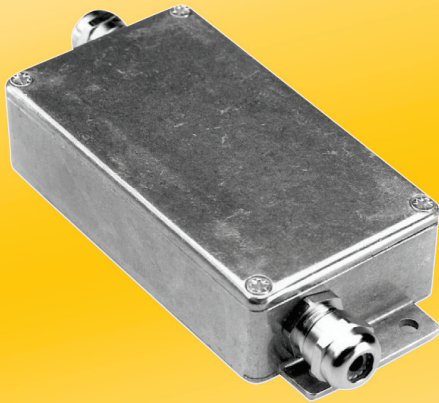
NOTES UNLESS OTHERWISE SPECIFIED

1. TERMINATE CABLE SHIELD/DRAIN WIRES TO THE CASE TERMINAL OF P1 AND P2. IF APPLICABLE, BARE CONDUCTORS MUST BE ELECTRICALLY INSULATED FROM THE CIRCUIT BOARD WITH A NONCONDUCTIVE SLEEVE SUCH AS HEAT SHRINK TUBING.
2. RECOMMENDED CABLE FOR DIFFERENTIAL/COMPLEMENTARY ENCODER SIGNALS: LOW CAPACITANCE, TWISTED-SHIELDED PAIR: SEE ACCESSORIES SECTION FOR 4XXC CABLES/CONNECTORS. 4XXC CABLES MUST HAVE OUTER INSULATION STRIPPED OFF IN ORDER TO FIT THROUGH CABLE ENTRY GLANDS.
3. SEE CONFIGURATION ORDERING GUIDE FOR INPUT/OUTPUT VOLTAGE PER THE SELECTED RXTX MODEL NUMBER
4. P2-14 (Vcc) or P2-15 (5V) CAN BE USED TO POWER ENCODER.
5. P1-15 (5-24VDC IN (Vcc)) IS FOR CUSTOMER SUPPLIED POWER TO OPERATE RXTX.



All dimensions are in inches with a tolerance of $\pm 0.005"$ or $\pm 0.01"$ unless otherwise specified
Metric dimensions are given in brackets [mm]

RX/TX Repeater



RX/TX Repeater

Ordering Information

(Specify stock # when ordering)

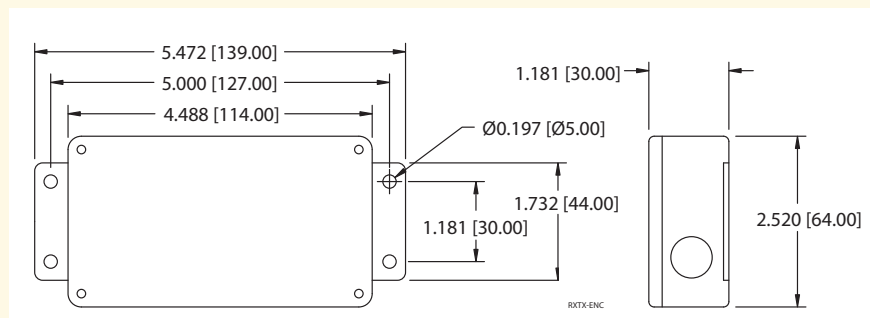
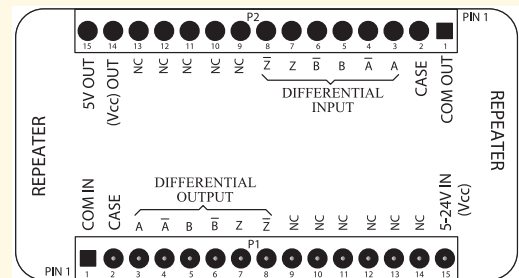
Differential = A, A', B, B', Z, Z'
 Single Ended = A, B, Z

Stock #	INPUT	OUTPUT
	Differential Line Receiver- MAX 3095	Differential Line Driver 7272
100020-13	5 V	5V
100020-14	5 V	Vcc ²
100020-15	6-12V	5V
100020-16	6-12V	Vcc ²
100020-17	13-24V	5V
100020-18	13-24V	Vcc ²

Notes:
 1. Vcc should range between 5-24 VDC.
 2. Outputs will be equivalent to voltage applied to Vcc (Pin P1-15).

NOTES UNLESS OTHERWISE SPECIFIED

1. TERMINATE CABLE SHIELD/DRAIN WIRES TO THE CASE TERMINAL OF P1 AND P2. IF APPLICABLE. BARE CONDUCTORS MUST BE ELECTRICALLY INSULATED FROM THE CIRCUIT BOARD WITH A NONCONDUCTIVE SLEEVE SUCH AS HEAT SHRINK TUBING.
2. RECOMMENDED CABLE FOR DIFFERENTIAL/ COMPLEMENTARY ENCODER SIGNALS: LOW CAPACITANCE, TWISTED-SHIELDED PAIR: SEE ACCESSORIES SECTION FOR 4XXC CABLES/CONNECTORS. 4XXC CABLES MUST HAVE OUTER INSULATION STRIPPED OFF IN ORDER TO FIT THROUGH CABLE ENTRY GLANDS.
3. SEE CONFIGURATION ORDERING GUIDE FOR INPUT/OUTPUT VOLTAGE PER THE SELECTED RXTX MODEL NUMBER
4. P2-14 (Vcc) or P2-15 (5V) CAN BE USED TO POWER ENCODER.
5. P1-15 (5-24VDC IN (Vcc)) IS FOR CUSTOMER SUPPLIED POWER TO OPERATE RXTX.



All dimensions are in inches with a tolerance of $\pm 0.005"$ or $\pm 0.01"$ unless otherwise specified

Metric dimensions are given in brackets [mm]

Features

The RX/TX Repeater retransmits signals from an encoder output, in order to drive signals over a longer distance with reduced noise and distortion free waveforms. The input is equipped with a Differential Line Receiver, and a Differential Line Driver. It takes the differential signals (A, A', B, B', Z, Z'), squares the signals up, and then repeats the signals at the outputs.

Benefits are greater immunity from electrical noise, signal distortion, and interference, especially with long cable runs. The output signal can be 5 VDC or an amplitude equivalent to Vcc.

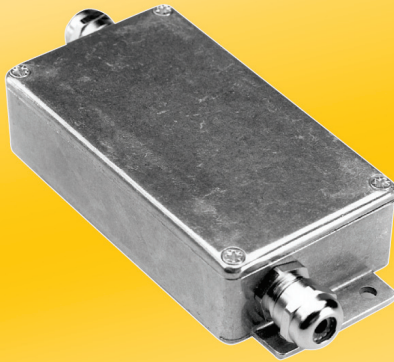
Applications

- Repeat differential signals for data transmission over long distances.
- To properly terminate differential signals to eliminate/reduce signal distortions.
- Increase output current drive capability in order to drive multiple receivers

Specifications

Supply Source (Vcc)	5 to 24 VDC
Current Consumption	20 mA max (plus encoder and output load requirements)
Max Frequency	Up to 1 MHz
Enclosure	IP54 (dust proof)
Earth Circuit	Grounded to Case
Input Voltage	24 VDC Max Diff
Output Voltage	5 VDC or Vcc
Output Current	30 mA/Channel Max

RX/TX Splitter



Features

The RX/TX Splitter has one input and two separate output channels. There are two different types of inputs available. One input type is a differential line receiver. Differential input signals (A, A', B, B', Z, Z') are split into two identical differential output channels. OR, the input can be configured for a single ended Push-Pull, NPN, Open Collector, or Pull-Up encoder (A, B, Z), which will split the signal into two independent differential line driver outputs (A, A', B, B', Z, Z'). Refer to the block diagram below for the signal flow through the device. Line Driver signals include complementary outputs A', B', and Z', and offer greater immunity from electrical noise, signal distortion, and interference especially with long cable runs. The output signal can be approximately 5 VDC or a voltage amplitude equivalent to the RXTX supply (Vcc).

To order, choose the type of input (differential or single ended), the expected encoder signal voltage and the voltage output options. Use the RXTX Splitter ordering guide below to establish the stock number.

RX/TX Splitter

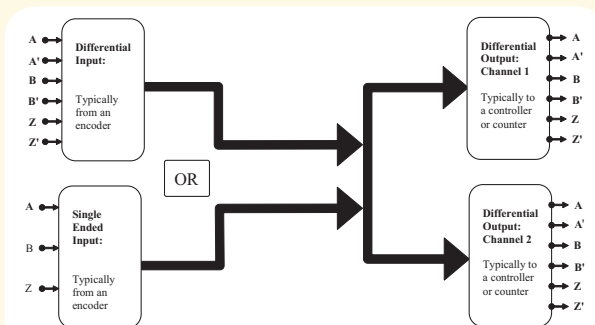
Ordering Information (Specify stock # when ordering)

Input and Output Types: Differential = A,A', B,B', Z,Z' Single Ended = A, B, Z

STOCK #	INPUT TYPE	INPUT VOLTAGE (From Encoder)	OUTPUT VOLTAGES (Single Ended or Differential-7272)	
			Ch.1	Ch.2
100020-20	Differential	5V	5V	5V
100020-21	Differential	5V	Vcc	Vcc
100020-22	Differential	5V	Vcc	5V
100020-23	Differential	6-12V	5V	5V
100020-24	Differential	6-12V	Vcc	Vcc
100020-25	Differential	6-12V	Vcc	5V
100020-26	Differential	13-24V	5V	5V
100020-27	Differential	13-24V	Vcc	Vcc
100020-28	Differential	13-24V	Vcc	5V
100020-29	Single Ended	5V OC	5V	5V
100020-30	Single Ended	5-24V OC	Vcc	Vcc
100020-31	Single Ended	5V OC	Vcc	5V
100020-32	Single Ended	5V PP, PU, TTL	5V	5V
100020-33	Single Ended	5V-24 PP, PU, TTL	Vcc	Vcc
100020-34	Single Ended	5V PP, PU, TTL	Vcc	5V

NOTES:

1. Choose an input channel of signal type differential or single ended that is to be split into two output channels. These input signals are typically from an incremental encoder. Refer to the block diagram below for the input and output signal flow.
2. For OC type inputs, 2K ohm resistors are used for pull-up internally.
3. The output channels may be used in the differential mode (A,A', B,B', Z, Z') or as A, B, Z (PP) referenced to circuit common.
4. Vcc is the RXTX Splitter supply voltage and ranges from 5 to 24 VDC.
5. Single ended input voltage must be less than or equal to the output voltage (Vcc or 5V), whichever is applicable.
6. Vcc (5-24VDC) or a PCB generated 5V is supplied to the output drivers (channels).

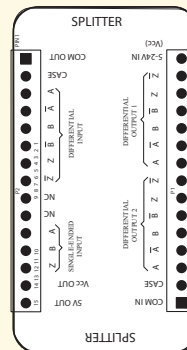


Applications

- To split differential, or single ended signals for data transmission over long or short distances to two different devices.
- To properly terminate differential signals to eliminate/reduce signal distortion.
- To increase output current drive capability in order to drive multiple receivers.
- To split the input signal and provide the two output channel drivers with differing voltage outputs.

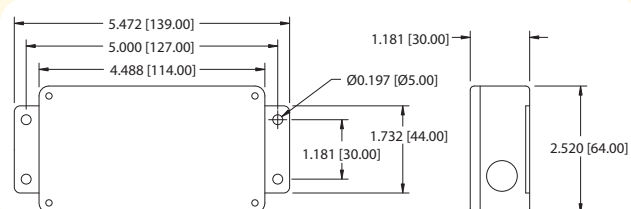
Specifications

Supply Source (Vcc)	5 to 24 VDC
Current Consumption	20 mA max (plus encoder & output load requirements)
Max Frequency	Up to 1 MHz
Enclosure	IP54 (dust proof)
Earth Circuit	Grounded to Case
Input Voltage	24 VDC Max Diff
Output Voltage	5 VDC or Vcc
Output Current	30 mA/Channel Max



NOTES UNLESS OTHERWISE SPECIFIED

1. TERMINATE CABLE SHIELD/DRAIN WIRES TO THE CASE TERMINAL OF P1 AND P2. IF APPLICABLE. BARE CONDUCTORS MUST BE ELECTRICALLY INSULATED FROM THE CIRCUIT BOARD WITH A NONCONDUCTIVE SLEEVE SUCH AS HEAT SHRINK TUBING.
2. RECOMMENDED CABLE FOR DIFFERENTIAL/COMPLEMENTARY ENCODER SIGNALS: LOW CAPACITANCE, TWISTED-SHIELDED PAIR: SEE ACCESSORIES SECTION FOR 4XXC CABLES/CONNECTORS. 4XXC CABLES MUST HAVE OUTER INSULATION STRIPPED OFF IN ORDER TO FIT THROUGH CABLE ENTRY GLANDS.
3. SEE CONFIGURATION ORDERING GUIDE FOR INPUT/OUTPUT VOLTAGE PER THE SELECTED RXTX MODEL NUMBER
4. P2-14 (Vcc) or P2-15 (5V) CAN BE USED TO POWER ENCODER.
5. P1-15 (5-24VDC IN (Vcc)) IS FOR CUSTOMER SUPPLIED POWER TO OPERATE RXTX.



Connectors/Cables/Converters

Mating Connectors

Stock #	Description
080014.....	MS3106A14S-6S-619.....6-pin MS type
080174.....	MS3106A16S-1S-618.....7-pin MS type
080113.....	MS3106A18-1S-618.....10-pin MS type
080325-01.....	AIM 40-9709S.....9-pin D-sub Miniature
080359.....	12-pin
080364.....	16-pin, CE
080365.....	16-pin
080023.....	KPT06F14-19S.....19-pin
080376-01.....	10-pin Industrial Clamp
080021.....	10-pin Bayonet

Electrical Cable

Stock #	Description
070148.....	Standard Cable
070244.....	Twisted Pair Cable - Line Driver outputs only
070063.....	High Temperature Cable
070264.....	Cable for Absolute Encoders - Models 925 and 958



Pre-Wired Cable and Mating Connector Assemblies

To order a pre-wired cable and connector assembly complete the boxes to indicate the connector style, cable length, and output configuration.

Incremental Encoder Cable Assemblies (Cable is 24 AWG double-shielded and is rated to 105° C)

Cable Type 3 = Standard 4 = Twisted Pair	C - - -	CE Compatible Y = Yes N = No
Connector Style 06 = 6-pin MS Type 07 = 7-pin MS Type 09 = 9-pin D-Sub Mini 10 = 10-pin MS Type H1 = 10-pin Bayonet 12 = 12-pin MS Type		Output Type ST = OC, PU, PP, S, O HV = HV
Cable Length Number of Feet		Channel Configuration A = Single Channel Q = Quadrature or Dual Channel R = Quadrature Index Z

Absolute Encoder Cable Assemblies¹ (Cable is 28 or 30 AWG, shielded, and is rated to 70° C)

Cable Type 5 = Absolute 4 = Twisted Pair	C - -	CE Compatible Y = Yes N = No
Connector Style 10 = 10-pin MS Type ² 16 = 16-pin Connector ³ 19 = 19-pin Connector		Cable Length Number of Feet

M12 (12 mm) Cord Sets (Always use a shielded cord set)

8-Conductor Cordsets (For use with 8-pin M12 connectors.)

3, 4, and 5-Conductor Cord sets (For use with 5-pin M12 connectors.)

Shield not connected to Coupling Nut

Stock #	Description	Length
075100.....	RKC8T-0.5/S618.....	0.5 Meters (1.64 ft)
075101.....	RKC 8T-2/S618.....	2 Meters (6.56 ft)
075102.....	RKC 8T-4/S618.....	4 Meters (13.12 ft)
075103.....	RKC 8T-6/S618.....	6 Meters (19.69 ft)
075104.....	RKC 8T-10/S618.....	10 Meters (32.81 ft)

Shield connected to Coupling Nut

Stock #	Description	Length
075200.....	RKS 8T-2.....	2 Meters (6.56 ft)
075201.....	RKS 8T-4.....	4 Meters (13.12 ft)
075202.....	RKS 8T-6.....	6 Meters (19.69 ft)
075203.....	RKS 8T-10.....	10 Meters (32.81 ft)

Shield not connected to Coupling Nut

Stock #	Description	Length
075205.....	3-Conductor RK 4T-1/S618.....	1 Meter (3.28 ft)
075206.....	4-Conductor RK 4.4T-1/S618.....	1 Meter (3.28 ft)
075204.....	5-Conductor RK 4.5T-1/S618.....	1 Meter (3.28 ft)

Shield connected to Coupling Nut

Stock #	Description	Length
075211.....	5-Conductor.....	1 Meter (3.28 ft)

Encoder Power Supply



EPC Power Supply

Ordering Information

(Specify stock # when ordering)

EPS-5V Stock# 100043
EPS-12V Stock# 100044
EPS-24V Stock# 100045

Features

A clean source of dedicated power for your encoder is an important factor when designing a reliable system. Now available from EPC are small, easily mounted Din Rail power supplies specifically chosen to power encoders. Designed for space efficiency, these compact power supplies are available in 5, 12, or 24 VDC.

Easy to see LED indicators show the power supply is working properly. Screw type terminals easily accommodate wires from AWG 24 to 14. The shock proof housing is both UL and CE approved.

These supplies have been tested to work with all our Accu-Coders™. Save yourself time and money, call EPC today and order a power supply that you *know* will work with your encoder!

Specifications

Electrical

Nominal Input Voltage 100 to 240 Vac / 47 to 63 Hz
 Input Voltage Range 90 to 265 Vac / 47 to 63 Hz or 120 to 370 VDC
 Frequency 100 kHz min
 Inrush Surge Current < 10 A @ 115Vac, < 18A @ 230 Vac
 Input Fuse T2A / 250 Vac

	EPS-5V	EPS-12V	EPS-24V
Nominal Output Voltage	5 VDC	12 VDC	24 VDC
Tolerance	± 1 %	± 1 %	± 1 %
Nominal Output Current	3 A	1.5 A	0.75 A
Efficiency	> 75%	> 77 %	> 77 %
Ripple and Noise	50 mV	50 mV	50 mV

Mechanical

Dimensions 3.54" L x 0.89" W x 4.5" D
 (90 mm L x 22.5 mm W x 115 mm D)
 Connection Type Screw Clamp Connection

Environmental

Operating Temperature -10° C to +50° C
 Storage Temperature -25° C to +85° C
 Relative Humidity 95% RH

Approvals and Standards

UL/cUL UL 508 / UL 1310 Listed, Class 2
 TUV EN 60950
 CE EN 50081-1 / EN 55022 Class B
 EN 61000-3-2
 EN 61000-3-3
 EN 50082-1 / EN 55024
 FCC Class B

Couplings/Bore Kits/Options

Shaft Couplings

<u>Stock#</u>	<u>Length</u>	<u>From shaft size</u>	<u>To shaft size</u>
161307.....	1.00"	0.250"	0.250"
161308.....	1.00"	6 mm	6 mm
161309.....	1.00"	6 mm	0.250"
161314.....	1.00"	6 mm	0.375"
161313.....	1.00"	0.250"	0.375"
161317.....	1.00"	0.375"	0.375"
161319.....	1.50"	0.375"	0.500"



Magnetic Coupling

<u>Stock#</u>	<u>Description</u>
176282-01	For encoders with a 5/8" (0.625") bore Model 260 and Model 25T
176409-01	For encoders with a 3/8" (0.375") bore Model 260 and Model 15T



Bore Adaptor Kits

<u>Stock#</u>	<u>Description</u>
260-BK97	Small Metric Bore Adapter Kit for 260. Includes 6, 8, & 10mm
260-BK98	Large Metric Bore Adapter Kit for 260. Includes 11, 12, & 14mm
260-BK99	Inch Standard Bore Adapter Kit for 260. Includes 0.250", 0.375 and 0.500"
25T-BK98	Metric Bore Adapter Kit for 25T. Includes 19, 20, 24, 25, 28mm
25T-BK99	Inch Standard Bore Adapter Kit for 25T. Includes 0.500", 0.625", 0.750", 0.875", 1.000"



Shafts

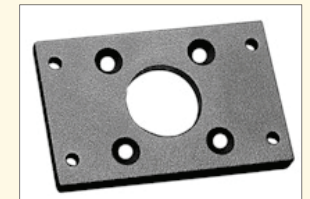
<u>Stock#</u>	<u>Description</u>
176406.....	10:1 Tapered Shaft with Internal Threads
176407.....	10:1 Tapered Shaft without Internal Threads



Mounting Options

Mounting Hubs with Couplings for Size 15

<u>Stock#</u>	<u>Description</u>
175488-01	NEMA Size 34, 6 mm coupling
175489-01	NEMA Size 23, 6 mm coupling
175488-02	NEMA Size 34, 1/4" coupling
175489-02	NEMA Size 23, 1/4" coupling
175488-03	NEMA Size 34, 3/8" coupling
175489-03	NEMA Size 23, 3/8" coupling



Mounting Flanges and Adaptors

<u>Stock#</u>	<u>Description</u>
175124.....	Square Flange Adaptor for Model 755A
175125.....	Adapts Standard Cube Housing to fit in Explosion Proof Housing
175126.....	Standard Cube Universal Round Flange
175494.....	5PY Adapter for Size 25 Series
175443.....	5PY Adapter for 2.25" Standard Cube Housing
175557-01	Cube Mounting Adapter for Size 20 Series



Mounting/Accessories

Mounting Brackets

Stock#

176396-01	Heavy Duty Mounting Plate Kit for HD Cube Housing
176430-01 (Replaces 140039)	Single Pivot for Cube Housing
176430-02	Spring Loaded Single Pivot for Cube Housing
176431-01 (Replaces 140040)	Double Pivot for Cube Housing
176431-02	Spring Loaded Double Pivot for Cube Housing
140113	Spring Loaded Pivot Mounting Bracket for 702, 725, 758, 925 and 958

Uni-Brackets Adapts the Model 260 or Model 702 Flex-Mount to fit a standard motor mount with a mounting bolt circle up to 5.875", such as a NEMA 4.5" AK mount or IEC equivalent.

Stock#

175997-01	Uni-Bracket Kit
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Tru-Trac™ Optional Mounting Brackets

Stock#

140104	Angled Mounting Bracket for Models TR1 Tru-Trac™ and TR2 Tru-Trac™
176389-01	Mounting Plate and Pivot Arm Kit for Model TR3 Tru-Trac™
176391-01	Double Pivot Bracket Kit for Model TR3 Tru-Trac™

LCE Optional Mounting Plate

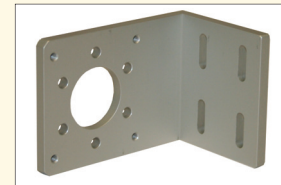
Stock#

176064-01	Attaches to Standard or Industrial LCE in three different orientations.
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Foot Mount Bracket

Stock#

140121	Use with Clamping Flange 20 Type - 758, 858, 958
140122	For Use with 702, 802S, 725 & 925

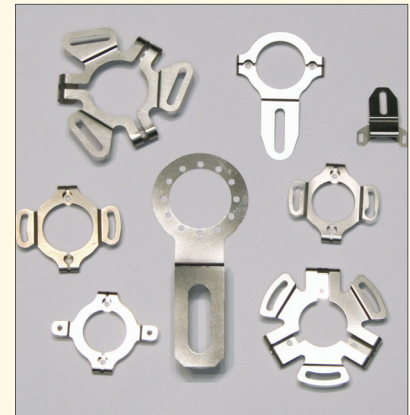


Mounting Options

Anti-Rotation Flex Mounts

Stock#

140054-01	Flex mount and accessories
140106-01	225 Flexible Mounting Arm Kit
140108-01	260 and 702 Flexible Mounting Arm Kit
140055-01	260 SF Mounting Kit
140107-01	260 SD Mounting Kit
140071-01	260 FA Flex Arm Mounting Kit
140114-01	25T SE 3-Point Mount Kit
140115-01	25T SG Tether Arm Kit
140116-01	25T SJ Tether Arm Kit
140123-01	25T SH Tether Arm Kit



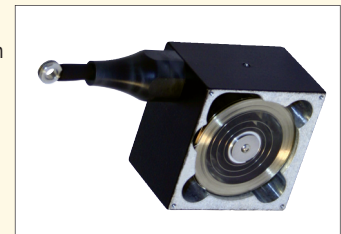
Linear Cable Accessories

50 inch Linear Cable Adapter for standard or industrial cube housings. Mounting hardware is included for an easy installation directly over the shaft of your existing cube encoder. See *Technical Bulletin TB-517* for specific installation instructions.

On Encoder's website, www.encoder.com, under the "Support" heading, go to the "Information Bulletins" link.

Stock#

LCA01	50" Linear Cable Adapter for Standard Cube Housing with 1/4" shaft
LCA02	50" Linear Cable Adapter for Industrial Cube Housing with 3/8" shaft
176064-01	Optional Mounting Plate and hardware for cube style Linear Cable Encoders



TR2 Racks & Accessories

Stock#

176216	12" for Stainless Steel
176217	24" for Stainless Steel
176218	36" for Stainless Steel
176219	Spacer Block for Stainless Steel
161546	2 meter flexible rac
161548	Flexible rack clamps 10 pk (with M4 x 0.7 x 1 mm) Phillips pan head machine screws.
161547	1 meter guide rail for flexible rack (does not work with 176220 gear)
140104	Angle Mounting Bracket
176220	40 Tooth Pinion Gear for use with Stainless Steel Rack
176302	40 Tooth Pinion Gear for use with Flexible Rack

For lengths over 36", order multiple pieces of rack or the flexible plastic option. A spacer block must be used to accurately join two or more pieces of rack. See Technical Bulletin TB-522 or TB-523 for details.

Motor Kits/Covers/Accessories

Motor Kits

Model 25T Encoder with 5-28 VDC Input, A/B/Z Line Driver Outputs, 10-pin MS Style connector, -20° to +105° C Temp, IP66 Sealing, SG Tether Arm Kit, 10-pin MS Mating Connector, and 56C Protective Cover.

MK-56C-25T-001	5/8" Bore 1024 CPR
MK-56C-25T-002	5/8" Bore 2048 CPR
MK-56C-25T-003	5/8" Bore 4096 CPR
MD-56C-25T-004	1.0" Bore 1024 CPR
MD-56C-25T-005	1.0" Bore 2048 CPR
MK-56C-25T-006	1.0" Bore 4096 CPR

Model 25T Encoder with 5-28 VDC Input, A/B/Z Line Driver Outputs, 10-pin Bayonet connector, -20° to +105° C Temp, IP66 Sealing, SG Tether Arm Kit, 10-pin Bayonet Mating Connector and 56C Protective Cover.

MK-56C-25T-051	5/8" Bore 1024 CPR
MK-56C-25T-052	5/8" Bore 2048 CPR
MK-56C-25T-053	5/8" Bore 4096 CPR
MK-56C-25T-054	1.0" Bore 1024 CPR
MK-56C-25T-055	1.0" Bore 2048 CPR
MK-56C-25T-056	1.0" Bore 4096 CPR

Servo Clamps

For use with models 755A, 702, 725, 758 26 Type, 925 and 958 26 Type servo hubs. To determine the appropriate bolt circle diameter, add 0.270" to the maximum flange diameter.

Stock#

140083.....	Servo Clamp - Top Mount (one clamp with one 4-40 screw)
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Protective Covers

Stock#

175996-01	Uni-Cover Kit (includes bolts and washers). Compatible with Models 121, 225, 260, 755A, 702, 775, 776, and 960
770-000-02	770 Protective Cover Kit (includes mounting hardware) IP65 Sealing
771-000-07	771 Protective Cover Kit (includes mounting hardware) IP65 Sealing
865-000-02	865T Protective Cover Kit (includes mounting hardware) IP65 Sealing
176301-01	56C Cage Style Cover Kit for Model 25T and Model 260 (includes bolts and washers)



C-Face Gasket Kits for Models 770 and 771

Stock#

770-Gasket-Kit.....	C-Face Gasket Kit for Model 770
771-Gasket-Kit.....	C-Face Gasket Kit for Model 771
121-Seal-Kit.....	121 Base Dust Seal (IP50)

Measuring Wheels

Linear Measuring Wheels

Faced Measuring Wheels

Stock#	Circumference	Rim Type	Bore	Width
161360 (TR1)	6"	85 Urethane	1/4"	0.25"
161401 (TR1)	6"	Knurled	1/4"	0.25"
161423 (TR1)	6"	Knurled Hard Anodized	1/4"	0.25"
161370	6"	Knurled	1/4"	0.4"
161376	6"	Knurled	3/8"	0.4"
161362	12"	Knurled	1/4"	0.4"
161379	12"	Knurled	3/8"	0.4"
161419	12"	Knurled Hard Anodized	3/8"	0.4"
161332	12"	Knurled	1/4"	1"
161432 (TR3)	12"	Knurled	3/8"	0.75"
161333	12"	Knurled	3/8"	1"
161436 (TR3)	12"	Knurled Hard Anodized	3/8"	0.75"
161420	12"	Knurled Hard Anodized	3/8"	1"
161310	12"	Rubber	1/4"	1"
161331	12"	Rubber	3/8"	1"
161334	12"	Grooved	1/4"	1/2"
161335	12"	Grooved	3/8"	1/2"
161428 (TR3)	12"	60 Urethane	3/8"	0.75"
161336	12"	80 Urethane	1/4"	0.70"
161337	12"	80 Urethane	3/8"	0.70"
161338	12"	90 Urethane	1/4"	0.70"
161339	12"	90 Urethane	3/8"	0.70"
161346	12"	Rubber	1/4"	1/2"
161347	12"	Rubber	3/8"	1/2"
161349	12"	90 Urethane	5/8"	0.70"
161430 (TR3)	1/3 Meter	60 Urethane	3/8"	0.75"
161344	1/3 Meter	Urethane	1/4"	5/8"
161359	1/3 Meter	Urethane	3/8"	5/8"
161434 (TR3)	1/3 Meter	Knurled	3/8"	0.75"
161361	1/3 Meter	Knurled	1/4"	10 mm
161380	1/3 Meter	Knurled	3/8"	10 mm
161399 (TR1)	200 mm	85 Urethane	1/4"	0.25"
161400 (TR1)	200mm	Knurled	1/4"	0.25"
161424 (TR1)	200mm	Knurled	1/4"	0.25"
161371	200 mm	Knurled	1/4"	10 mm
161375	200 mm	Knurled	3/8"	10 mm
161372	300 mm	Knurled	1/4"	10 mm
161377	300 mm	Knurled	3/8"	10 mm
161438 (TR3)	300 mm	Knurled Hard Anodized	3/8"	0.75"
161373	400 mm	Knurled	1/4"	10 mm
161378	400 mm	Knurled	3/8"	10 mm
161374	500 mm	Knurled	1/4"	20 mm
161381	500 mm	Knurled	3/8"	20 mm

Rubber Insert Measuring Wheels

Stock #	Circumference	# of Inserts	Bore	Width
161363	200 mm	1	1/4"	10 mm
161382	200 mm	1	3/8"	10 mm
161364	300 mm	1	1/4"	10 mm
161384	300 mm	1	3/8"	10 mm
161365	400 mm	1	1/4"	10 mm
161385	400 mm	1	3/8"	10 mm
161366	500 mm	2	1/4"	20 mm
161388	500 mm	2	3/8"	20 mm
161369	1/3 Meter	1	1/4"	10 mm
161387	1/3 Meter	1	3/8"	10 mm
161367	6"	1	1/4"	10 mm
161383	6"	1	3/8"	10 mm
161368	12"	1	1/4"	10 mm
161386	12"	1	3/8"	10 mm

Measuring Wheel Application Guide

Recommended Use For Measuring Wheels

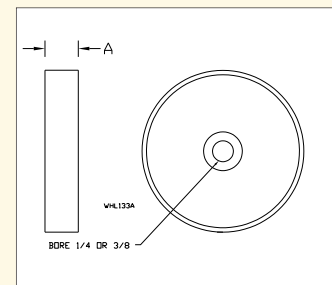
Knurled Faced			80 Urethane Faced*		90 Urethane Faced*			Rubber Insert		
Course Fabric	Cloth Tape	Rough Wood	Soft Materials	Cardboard	Matting	Sandpaper	Fine Fabric	Paper	Cable	
Rubber	Carpet	Foam	Smooth Materials	Insulated Wire	Metal		Hard Plastic	Film	Foil	
Insulation							Metal (cease-free)			



Faced Measuring Wheels

Measuring Wheel Dimensions

Rim Facing	Circumference	(A) Rim Width
Knurled	12"	1"
Rubber	12"	1"
Grooved	12"	1/2"
80 Urethane	12"	0.70"
90 Urethane	12"	0.70"
Rubber	12"	1/2"
Knurled	1/3 meter	5/8" or 1"
Rubber	1/3 meter	5/8" or 1"
Urethane	1/3 meter	1"



Typical Measuring Wheel



Rubber Insert Measuring Wheels

Temperature Specifications

Rubber Faced
-40° F to +275° F

Urethane Faced
-40° F to +155° F

* 90 urethane is a more durable material and performs better for tracking rough or hard fibers than the slightly softer 80 urethane material. The above recommendations are only guidelines. Performance may vary depending on your application. Contact Customer Service for specification assistance.