

YOUR ULTIMATE SOLUTION PARTNER FOR POSITION CONTROL APPLICATIONS



**LINEAR POSITION TRANSDUCERS
LINEAR & ROTARY ENCODERS
DRAW WIRE SENSORS
PROCESS CONTROL DEVICES
PRESSURE TRANSMITTERS
LEVEL SENSORS**

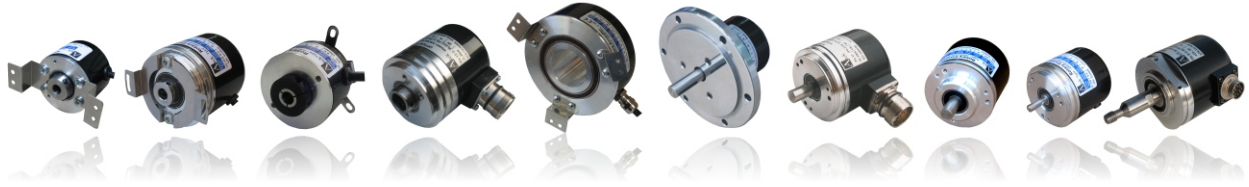


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Sensing technology...

ROTARY ENCODERS



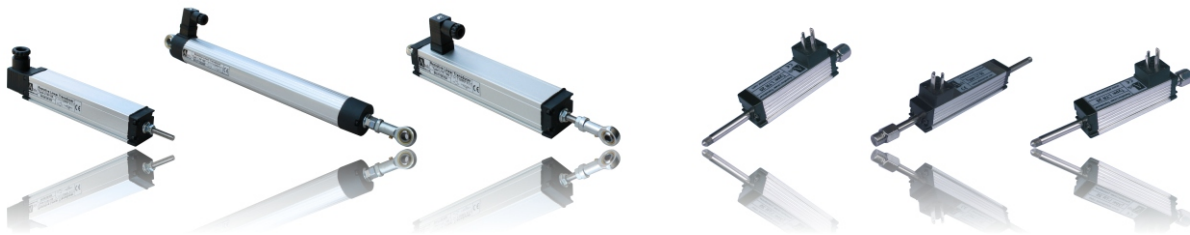
MAGNETIC LINEAR ENCODERS



DIGITAL READOUTS & MEASURING CONTROL INSTRUMENTS



LINEAR POTENTIOMETERS



PRESSURE TRANSMITTERS



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POTENTIOMETRIC MEASURING BODY CLAMP



SPECIAL FEATURES

- Potentiometric measuring stroke up to 1000 mm
- Absolute measurement of displacement
- Resolution 0,01mm
- Very long life up to 100 million movements
- High operating speed 5 m/s
- The grooves provide an excellent alternative to the usual system
- Excellent Linearity %0,3
- Pivoting sleeve bearing
- Optional rod joint

LTM is a high precision potentiometric industrial linear motion transducer with a long lasting conductive track suitable for absolute position measuring in control and Measurement applications. Designed for the direct, absolute measurement of displacement or length in control regulation and measuring applications.

High resolution (0.01 mm) combined with a stroke length of up to 1000 mm permits the accurate measurement of linear displacement.

LTM Series Potentiometric Linear Transducers are mainly used in :

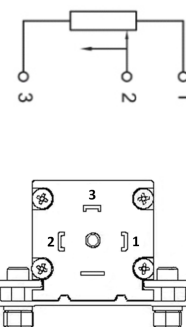
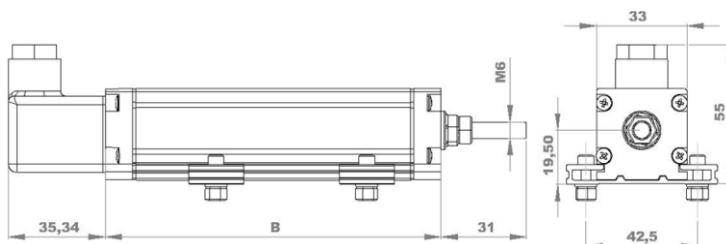
- Plastic & Metal Injection Machines
- Press Brake Machines
- Horizontal Band Saw Machines
- Transfer Machines
- Hydraulic Machines
- Sheet Metal Working Machines
- Bending Presses
- Textile Machines
- Robotics/materials handling
- Profile Cutting Machines



Technical Specifications

Defined Electrical Ranges	50 - 75 - 100 - 125 - 150 - 200 - 175 - 200 - 225 - 250 - 275 - 300 - 360 - 400 - 450 - 500 - 550 - 600 - 650 - 700 - 750 - 800 - 900 - 1000
Resistance Element	Conductive Plastic
Output Signals	Potentiometric (Voltage Divider) Analog outputs: 0-10VDC or 0/4-20mA
Independent Linearity	± %0,3
Electrical Connection	4 pin female DIN43650
Power Supply	Max. 42VDC Analog Series : 24VDC
Resistance	5K or 10Kohm and other (±%20 tolerance)
Protection Class	IP65
Temperature Range	-30°C +100°C
Life	100 million movements
Mechanical Fixing	Adjustable distance clamps
Rod material	Stainless Steel

LTM



Potentiometric connection (Voltage Divider)

ANALOG OUTPUTS

- 1.+24VDC Supply
- 2.Analog Output
A : 4-20mA Current Out
V : 0-10VDC Voltage Out
- 3.GROUND
- 4.SHIELD

Order Code

Model No

LTM

XXX

Output

- No Code: Potentiometric
- V : 0-10VDC Analog Voltage Out
- A : 4-20mA Analog Current Out

X

Defined Stroke Range

Several standard lengths from 50 mm to 1000 mm
* other lengths on request



SPECIAL FEATURES

- Twin bearing actuating rod
- Mountable over backlash free pivots heads with a large angle of free movement
- Maximum angular movement up to $\pm 30^\circ$
- Potentiometric measuring stroke up to 750 mm
- Absolute measurement of displacement
- Resolution 0,01mm
- Very long life up to 100 million movements
- High operating speed 5 m/s
- The grooves provide an excellent alternative to the usual system
- Excellent Linearity $\%0,3$



LTP is built easy mounting by double pivot heads. It's a high precision potentiometric industrial linear motion transducer with a long lasting conductive track suitable for absolute position measuring in control and Measurement applications. Designed for the direct, absolute measurement of displacement or angle in control regulation and measuring applications.

Mechanical fixing and self-aligning linkage using 2 ball joints. Maximum angular movement angle is up to $\pm 30^\circ$

High resolution (0.01 mm) combined with a stroke length of up to 750 mm permits the accurate measurement of linear displacement.

LTP Series Potentiometric Linear Transducers are mainly used in :

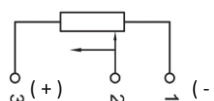
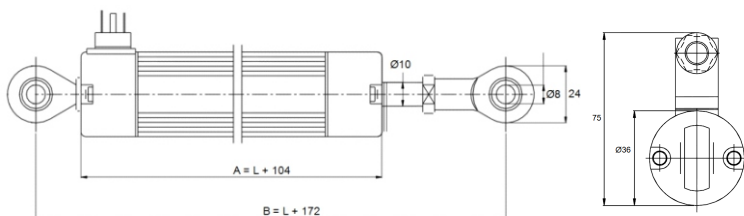
- Press Brake Machines
- Marble Machines
- Tension Control
- Horizontal Band Saw Machines
- Transfer Machines
- Hydraulic Machines
- Sheet Metal Working Machines
- Bending Presses
- Textile Machines



LTP

Technical Specifications

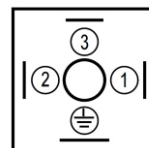
Defined Electrical Ranges	50 - 75 - 100 - 125 - 150 - 200 - 175 - 200 225 - 250 - 275 - 300 - 360 - 400 - 450 - 500 550 - 600 - 650 - 700 - 750
Resistance Element	Conductive Plastic
Output Signals	Potentiometric (Voltage Divider) Analog outputs: 0-10VDC or 0/4-20mA
Independent Linearity	$\pm \%0,3$
Electrical Connection	4 pin female socket
Power Supply	Max. 42VDC Analog Series : 24VDC
Resistance	5K or 10Kohm and other ($\pm \%20$ tolerance)
Protection Class	IP65
Temperature Range	-30°C +100°C
Life	100 million movements
Mechanical Fixing	With 2 ball-joints
Rod material	Stainless Steel



Potentiometric connection (Voltage Divider)

ANALOG OUTPUTS

- 1.+24VDC Supply
- 2.Analog Output
A : 4-20mA Current Out
V : 0-10VDC Voltage Out
- 3.GROUND
- 4.SHIELD



Order Code

Model No

Output

- No Code: Potentiometric
V : 0-10VDC Analog Voltage Out
A : 4-20mA Analog Current Out

LTM

XXX

X

Defined Stroke Range

Several standard lengths from 50 mm to 1000 mm
* other lengths on request



POTENTIOMETRIC MEASURING TWIN BEARING ACTUATING ROD



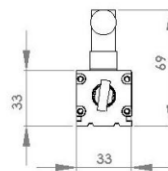
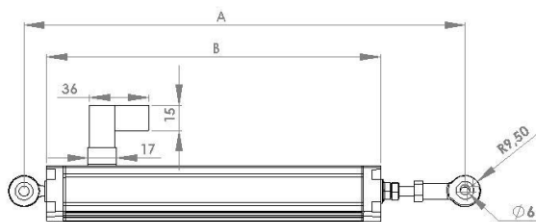
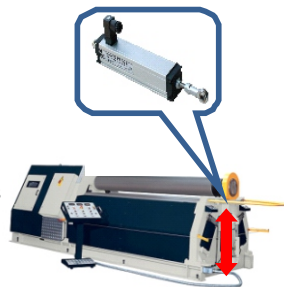
LTC is built easy mounting by double pivot heads. The only difference from the LTP series is the square frame body. It's a high precision potentiometric industrial linear motion transducer with a long lasting conductive track suitable for absolute position measuring in control and Measurement applications. Designed for the direct, absolute measurement of displacement or angle in control regulation and measuring applications.

Mechanical fixing and self-aligning linkage using 2 ball joints. Maximum angular movement angle is up to $\pm 30^\circ$

High resolution (0.01 mm) combined with a stroke length of up to 750 mm permits the accurate measurement of linear displacement.

LTC Series Potentiometric Linear Transducers are mainly used in ;

- Press Brake Machines
- Marble Machines
- Tension Control
- Horizontal Band Saw Machines
- Transfer Machines
- Hydraulic Machines
- Sheet Metal Working Machines
- Bending Presses
- Textile Machines

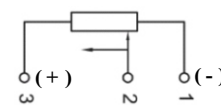


SPECIAL FEATURES

- Twin bearing actuating rod
- Square body (rod diameter 6mm)
- Mountable over backlash free pivots heads with a large angle of free movement
- Maximum angular movement up to $\pm 30^\circ$
- Potentiometric measuring stroke up to 500 mm
- Absolute measurement of displacement
- Resolution 0,01mm
- Very long life up to 100 million movements
- High operating speed 5 m/s
- The grooves provide an excellent alternative to the usual system
- Excellent linearity %0,3

Technical Specifications

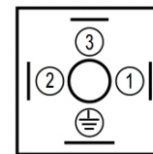
Defined Electrical Ranges	50 - 75 - 100 - 125 - 150 - 200 - 175 - 200 - 225 250 - 275 - 300 - 360 - 400 - 450 - 500
Resistance Element	Conductive Plastic
Output Signals	Potentiometric (Voltage Divider) Analog outputs: 0-10VDC or 0/4-20mA
Independent Linearity	$\pm 0,3$
Electrical Connection	4 pin female socket
Power Supply	Max. 42VDC Analog Series : 24VDC
Resistance	5K or 10Kohm and other (± 20 tolerance)
Protection Class	IP65
Temperature Range	-30°C +100°C
Life	100 million movements
Mechanical Fixing	With 2 ball-joints and fixing clamps
Rod material	Stainless Steel
Body and Rod Type	Square Body , 6mm rod diameter



Potentiometric connection
(Voltage Divider)

ANALOG OUTPUTS

- 1.+24VDC Supply
- 2.Analog Output
A : 4-20mA Current Out
V : 0-10VDC Voltage Out
- 3.GROUND
- 4.SHIELD



Order Code

Model No

LTM

XXX

X

Output

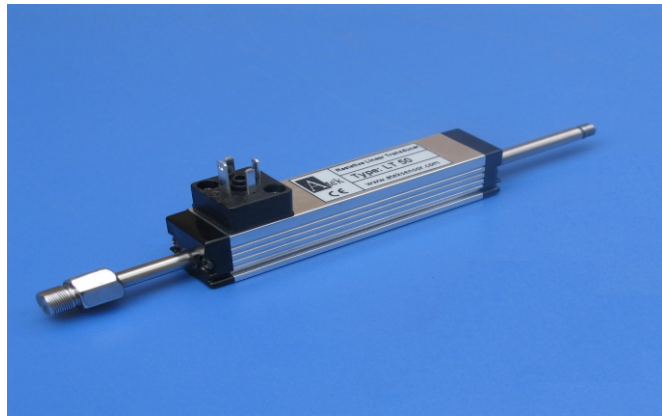
- No Code: Potentiometric
- V : 0-10VDC Analog Voltage Out
- A : 4-20mA Analog Current Out

Defined Stroke Range

Several standard lengths from 50 mm to 1000 mm
* other lengths on request



- Small Sizes
- Absolute measurement of displacement
- Resolution 0,01mm
- Very long life up to 100 million movements
- High operating speed 5 m/s
- Between 10 mm to 150 mm electrical ranges
- Protection Class Ip65

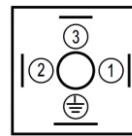


Technical Specifications

Defined Electrical Range	10 – 25 – 50 – 75 – 100 – 150
Resistance Element	Conductive Plastic
Output Signals	Potentiometric
Independent Linearity	± 0,3
Electrical Connection	4 pin female socket
Power Supply	Max. 42VDC
Resistance	5K or 10Kohm and other (±%20 tolerance)
Protection Class	IP65
Temperature Range	-30°C +100°C
Life	100 million movements
Rod material	Stainless Steel

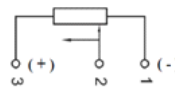
LT is a high precision potentiometric industrial linear motion transducer with a long lasting conductive track suitable for absolute position measuring in control measurement applications.

Connection



POTENTIOMETRIC OUTPUT

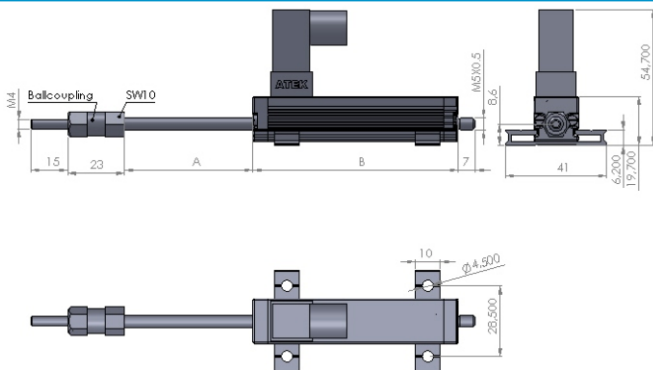
1. Resistance / +Supply
2. Output
3. Resistance / -Supply
4. SHIELD



Potentiometric Connection

(Voltage Divider)

Mechanical Dimensions



Strokes (mm)	25	50	75	100	150
A	27	52	77	102	152
B	63	88	113	138	188
Electrical Stroke	25	50	75	100	150
Mechanical Stroke	27	52	77	102	152

Order Code

Model No

LT

XXX

Defined Stroke Range

Several standard lengths from 50 mm to 1000 mm
* other lengths on request



POTENTIOMETRIC MEASURING SPRING SYSTEM, SHORT STROKES



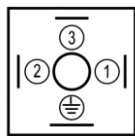
- Spring system
- Potentiometric measuring
- High resolution
- Very long life up to 100 million movements
- High operating speed 5 m/s
- Between 10 mm to 150 mm electrical ranges
Protection Class IP65

LTR Series are the industry proven system on both actuator shaft and spring.
LTR is a high precision potentiometric industrial linear motion transducer with a long lasting conductive track suitable for absolute position measuring in control measurement applications.

Technical Specifications

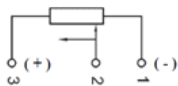
Defined Electrical Range	10 – 25 – 50 – 75 – 100 – 150
Resistance Element	Conductive Plastic
Output Signals	Potentiometric
Independent Linearity	± %0,3
Electrical Connection	4 pin female socket
Power Supply	Max. 42VDC
Resistance	5K or 10Kohm and other (±%20 tolerance)
Protection Class	IP65
Temperature Range	-30°C +100°C
Life	100 million movements
Rod material	Stainless Steel

Connection



POTENTIOMETRIC OUTPUT

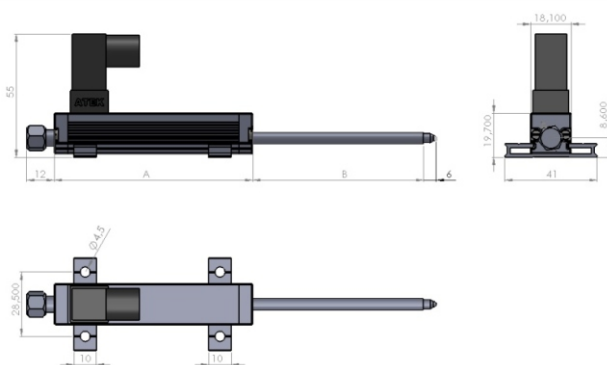
1. Resistance / +Supply
2. Output
3. Resistance / -Supply
4. SHIELD



Potentiometric Connection

(Voltage Divider)

Mechanical Dimensions



Strokes (mm)	10	25	50	75	100	150
A	48	63	95	135	167	227
B	16	57	82	107	132	182
Electrical Stroke	25	50	75	100	150	150
Mechanical Stroke	12	27	52	77	102	152

Order Code

Model No

LTR

XXX

Defined Stroke Range

Several standard lengths from 10 mm to 150 mm
(10, 25, 50, 75, 100, 150)





- Potentiometric Measurement
- Single side Actuating Rod
- Ball Coupling against lateral forces
- Measuring distances from 10 mm to 150 mm
- High Resolution
- Long life with 100 million moves
- High operating speed 5 m/s

LF Series are the industry proven system with single side actuating rod in its very compact size.

LF is a high precision potentiometric industrial linear motion transducer with a long lasting conductive track suitable for absolute position measuring in control measurement applications.

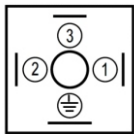
Technical Specifications

Defined Electrical Range	10 – 25 – 50 – 75 – 100 – 150
Resistance Element	Conductive Plastic
Output Signals	Potentiometric
Independent Linearity	± %0,6
Electrical Connection	4 pin female socket
Power Supply	Max. 42VDC
Resistance	5K or 10Kohm and other (±%20 tolerance)
Protection Class	IP65
Temperature Range	-30°C +100°C
Life	100 million movements
Rod material	Stainless Steel

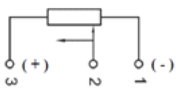
LF

Connection

POTENTIOMETRIC OUTPUT



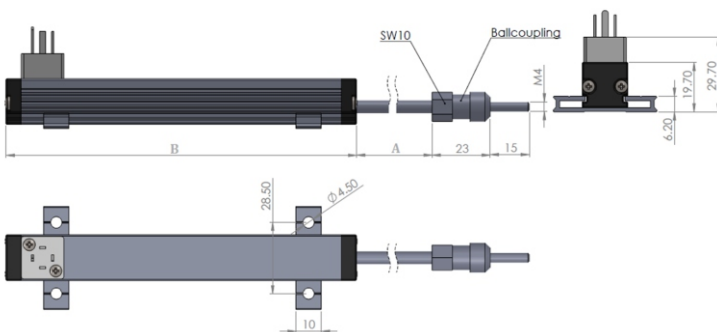
1. Resistance / +Supply
2. Output
3. Resistance / -Supply
4. SHIELD



Potentiometric Connection

(Voltage Divider)

Mechanical Dimensions



Strokes (mm)	25	50	75	100	150
A	27	52	77	102	152
B	63	88	113	138	188
Electrical Stroke	25	50	75	100	150
Mechanical Stroke	27	52	77	102	152

Order Code

Model No

LF

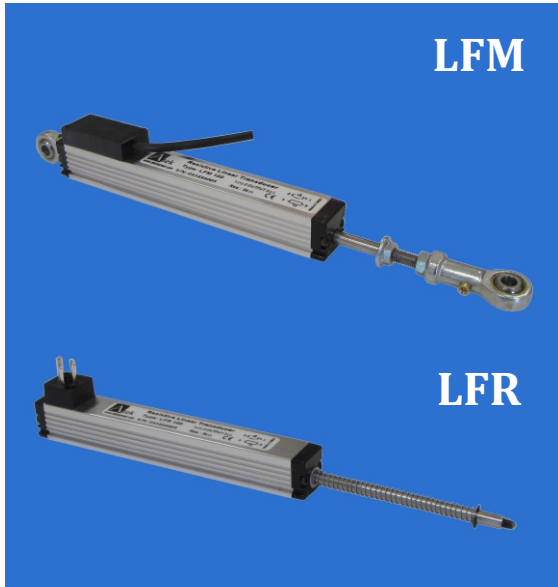
XXX

Defined Stroke Range

Several standard lengths from 10 mm to 150 mm
(10, 25, 50, 75, 100, 150)



POTENTIOMETRIC MEASURING DOUBLE SIDE ARTICULATED or SPRING SYSTEM



- Potentiometric Measurement
- Very compact and small body size
- Double sided articulated series: LFM
- Spring system series: LFR
- Ball Coupling against lateral forces
- Measuring distances from 10 mm to 150 mm
- High Resolution
- Long life with 100 million moves
- High operating speed 5 m/s

LFM and LFR series are a high precision potentiometric industrial linear motion transducer with a long lasting conductive track suitable for absolute position measuring in control measurement applications.

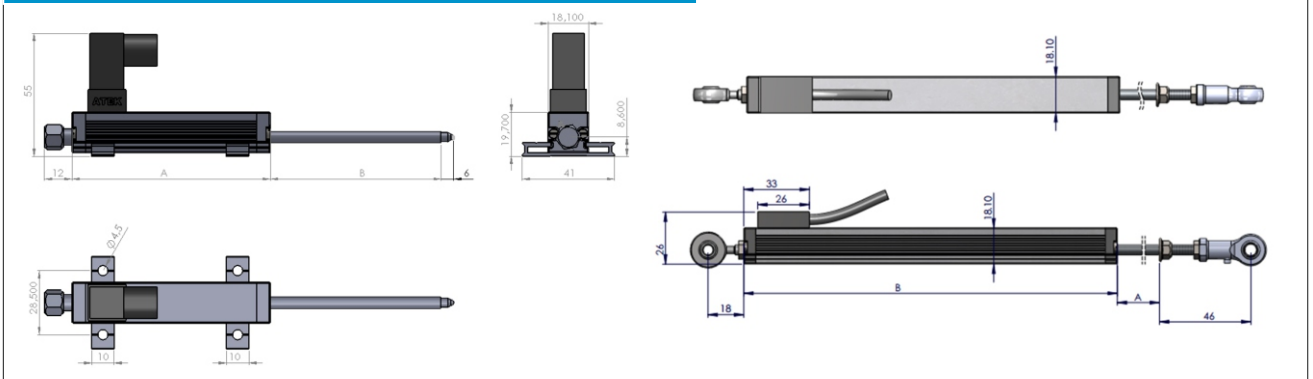
Technical Specifications

Defined Electrical Range	10 – 25 – 50 – 75 – 100 – 150
Resistance Element	Conductive Plastic
Output Signals	Potentiometric
Independent Linearity	± %0,6
Electrical Connection	4 pin female socket
Power Supply	Max. 42VDC
Resistance	5K or 10Kohm and other (±%20 tolerance)
Protection Class	IP65
Temperature Range	-30°C +100°C
Life	100 million movements
Rod material	Stainless Steel

Strokes (mm)	25	50	75	100	150
A	27	52	77	102	152
B	63	88	113	138	188
Electrical Stroke	25	50	75	100	150
Mechanical Stroke	27	52	77	102	152

LFM
LFR

Mechanical Dimensions



Order Code

Model No

LFM

LFR

LFM

XXX

Defined Stroke Range

Several standard lengths from 10 mm to 150 mm
(10, 25, 50, 75, 100, 150)



- Stroke up to 750 mm
- Magnetic non contacting
Incremental measurement of displacement
- Push Pull or TTL line driver Output
- Resolution 0,005mm – 0,010mm – 0,025mm – 0,080mm
- Infinite mechanical life
- High operating speed 5 m/s
- Twin bearing actuating rod
- Mechanical fixing and self aligning linkage using 2 ball joints
- Free pivot heads with a large angle of free movement ($\pm 30^\circ$)



Technical Specifications

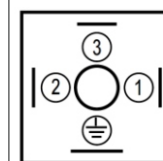
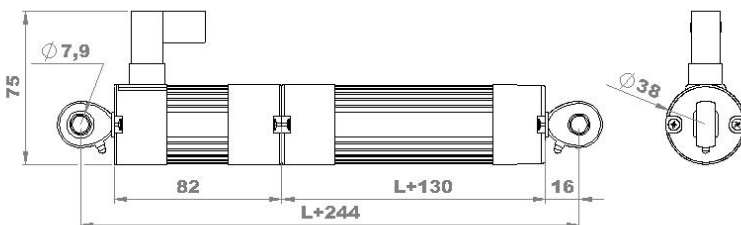
Defined Electrical Range	50 - 75 - 100 - 120 - 150 - 200 - 170 - 200 - 220 250 - 270 - 300 - 320 - 370 - 400 - 450 - 500 - 550 600 - 650 - 700 - 750
Resolution	5 μm , 10 μm , 25 μm , 62,5 μm or 80 μm other models on request
Output Type	Push Pull or TTL Line Driver
Output Signals	Standard with socket A-B Channels, Cable models ABZ or A, B, Z, /A, /B, /Z Channels
Electrical Connection	4 pin female socket
Power Supply	PP : 24VDC TTL : 5VDC
Repeatability	± 1 pulse
Protection Class	IP65
Temperature Range	-20°C +85°C
Life	Infinite
Mechanical Fixing	With 2 ball joints
Rod material	Stainless Steel

LTS is a high precision Magnetic Linear Encoder LTS System that operates incremental principle. It consists of a sensing head and a magnetically encoded tape. Magnetic tapes are commonly made from a magnetic tape itself made from Strontium ferrite bonded into a plastic or rubber (elastomeric) matrix which is then bonded onto a steel support.

The magnetic tape system is mounted on the actuating rod and is coupled free of backlash; this guaranteeing the highest accuracy and the longest lifetime

LTS Series Magnetic Linear Encoders are mainly used in;

- Press Brake Machines
- Horizontal Band Saw Machines
- Transfer Machines
- Hydraulic Machines
- Sheet Metal Working Machines
- Bending Presses



1. "B" Signal
 2. "A" Signal
 3. Vcc Power Supply
 4. GND
- Push Pull: 24VDC
TTL : 5VDC

Order Code

Model No

LTS

XX

XXX

X

XXX

Power Supply and Output

PP : 24 VDC Power Supply
: 24 VDC Push-Pull Output
TTL : 5 VDC Power Supply
: 5 VDC TTL RS422 Line Driver Output
HTL: 24 VDC Power Supply
: 5 VDC TTL RS422 Line Driver Output
Please on request!

Defined Stroke Range

Several standard lengths from 50mm to 750mm
*other lengths on request

Resolution

05 = 5 μm
10 = 10 μm
25 = 25 μm
62,5 = 62,5 μm
80 = 80 μm

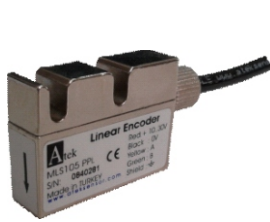
Output Signals

2 = A, B
4 = A, B, /A, /B
4 = A, B, /A, /B, Z, /Z

*optional every 5mm "Z" index pulse



MAGNETIC LINEAR ENCODER SYSTEM READER SENSORS



MLS - 110



MLS - 120



MLS - 130



MLS - 210

SPECIAL FEATURES

- Wide range of available resolution up to 1 μm
- Protection class Ip67
- Resistant to humidity
- Easy mounting
- Incremental outputs A, /A, B, /B and Z Reference signal
- Output signal Push-pull, TTL or RS422 line driver
- 5VDC or 10...30VDC Power Supply
- Robust shielded aluminum
- MLS 120, slider integrated and socket system body

MLS series reader sensors glide contactless over the profile/tape with a gap up to 2 mm.

MLS-110 reader sensors can be used with B series magnetic tape, PS1 profile and PS2 profile. Spiral or pure cable models are available. MLS-110 reader sensor provides maximum simple mounting with small size. MLS-120 socket system reader sensors can be used with B series magnetic tape, PS1 profile and PS2 profile. MLS-120 sensor has extra protection for the bad environmental conditions by slider. MLS-130 can be mounted even in the most cramped spaces with very small size. MLS-130 can be used with all profile and magnetic band systems. MLS-210 reader sensors can be used with all magnetic tape and profile systems but we suggest you with PS1 profile and PS3 profile for the best harmony. MLS-210 reader sensor both slide / slideless models and spiral / pure cable models are available.

Technical Specifications (MLS-110, MLS-120, MLS-130)

Resolution	1 μm , 5 μm , 10 μm , 25 μm , 50 μm , 62.5 μm , 80 μm , 100 μm (other models on request)
Output Signal Type	Push-Pull or TTL RS422 Line Driver
Output Signals	A, /A, B, /B, Z, /Z
Current	Maximum 40 mA per Channel
Power Supply	10...30 VDC or 5 VDC
Housing Material	Aluminum
Gap Between Tape and Sensor	0,1 mm to 2 mm
Travel Velocity	3 m/s
Repeatability	± 1 Pulse
Operating Temperature	-25 to +85°
Protection Class	IP67

Technical Specifications (MLS-210)

Resolution	5 μm , 10 μm , 25 μm , 50 μm , 62.5 μm , 80 μm , 100 μm (other models on request)
Output Signal Type	Push-Pull or TTL RS422 Line Driver
Output Signals	A, /A, B, /B, Z, /Z
Current	Maximum 40 mA per Channel
Power Supply	10...30 VDC or 5 VDC
Housing Material	Aluminum
Gap Between Tape and Sensor	0,1 mm to 2 mm
Travel Velocity	3 m/s
Repeatability	± 1 Pulse
Operating Temperature	-25 to +85°
Protection Class	IP67

Order Code

Model

MLS110
MLS120
MLS130
MLS210

Resolution

01 : 1 μm | 05 : 5 μm
10 : 10 μm | 25 : 25 μm
62 : 62,5 μm | 80 : 80 μm
100 : 100 μm

Signal Output Type

2 : A, B
3 : A, B, Z
4 : A, /A, B, /B
6 : A, /A, B, /B, Z, /Z
Standard: Every 5mm, Z signal
Optional: One Reference Z signal

Cable Type

C : Pure Cable
S : Shielded Spiral
CSL : Cable and Slider
SSL : Spiral and Slider

MLS XXX

XX

XX

XXX

XX

XXX

X

Magnetic Tape

B5
B2

Power Supply and Output

TTL : 5VDC $\pm 5\%$ Power Supply,
5 VDC TTL Rs422 Line Driver Output
PP : 24VDC $\pm 5\%$ Power Supply,
24 VDC Push-Pull Output
HTL : 24 VDC $\pm 20\%$ Power Supply,
5 VDC TTL Rs422 Line Driver Output

Cable Length

3M : 3 Meters
5M : 5 Meters
8M : 8 Meters
10M : 10 Meters
* Optional between 5 to 100 Meters



MLS



B Series Magnetic Tape



PS 110 Profile



PS 310 Profile



PS 210 Profile



PS 220 Profile



PS 230 Profile

SPECIAL FEATURES

- Easy mounting
- High accuracy
- Resistant to humidity
- Protection class Ip67
- Contactless and wear free system

B series magnetic tape is supplied with non-magnetic stainless steel cover for physical protection; for its fixing an adhesive tape is pre-mounted. B series magnetic tape is composed by three layers; a flexible magnetic tape made of a plastic material, upside cover strip and downside cover strip. In the profile systems, magnetic tape integrated in the profiles. PS1 systems most important specialty of the system is easy assembly. It can be used with MLS-110, MLS-120 and MLS-210 reader sensors.

PS 200 Series "Slim" profile is highly rugged, flexible plastic magnetic tape can be applied to a machine tool easily. It can be used for all reader sensors.

PS3 "Closed" profile, with the sealing system the extra protection provided against to dust, chip etc. It can be used with only MLS 210 reader sensors.

B Series Magnetic Tapes Technical Specifications

Operating Temperature	-40 to +120°
Pole Pitch	5 mm, 2 mm
Accuracy Class	±40 µm/m or ±20 µm/m
Temperature Coefficient	11 ± 11 µm/K
Water Protection	CrNi 17 7 stainless steel carrier nitrile rubber high temperature magnetic tape

PS Series Profiles Technical Specifications

Life	Infinite (Contactless)
Body Material	Aluminum
Gap Between Tape and Sensor	1,5 mm (Maximum 2,5 mm)
Magnetic Tape Type	B5 (Optional B2)
Operating Temperature Range	-25 to +85°
Protection Class	Ip67

Example Combinations



**B5 Magnetic Tape +
MLS 110 Sensor**



**B2 Magnetic Tape +
MLS 120 Sensor**



**B2 Magnetic Tape +
MLS 130 Sensor**



**PS 110 Carrier Profile +
MLS 210 Sensor**



**PS 220 Carrier Profile +
MLS 110 Sensor**



**Ps220 Carrier Profile +
MLS 120 Sensor**



**PS 220 Carrier Profile +
MLS 130 Sensor**



**PS 310 Carrier Profile +
MLS 210 Sensor**

MAGNETIC LINEAR ENCODER SYSTEMS MLC 300 SERIES COMPACT SCALES



MLC330



MLC320



MLC310



MLC 300 SERIES GENERAL PROPERTIES

- High accuracy measurement with contactless magnetic system
- Measuring up to 20 meters in harsh conditions
- Resolution options up to 1 μm
- Robust aluminum housing with excellent immunity against shock and vibrations
- Double sealed protection against harsh environments with dust, humid and oil
- Stable precision at high speeds
- Maintenance-free due to non contact measuring technology
- High reliability and repeability
- Easy mounting

MLC330

- Excellent quality sealed protection and thin profile design
- MLC330, built with the newest and highest technology, has completed all of durability tests against harsh environment conditions like dust, humid, oil etc.



MLC320

- Compact system embedded in extra thin profile design
- Recommended only up to 2 meters
- Motion-free reader sensor allows MLC320 to be ultimately durable against vibrations and axial shifts

MLC310

- Double sealed protection
- Recommended for long ranges
- Mounting holes for hassle-free mounting

MLC
300

Order Code

Magnetic Tape

B5
B2 (Only MLC 320)

Power Supply and Output

TTL : 5VDC \pm %5 Supply,
5 VDC TTL RS422 Line Driver Output

PP : 24 VDC \pm %20 Supply,
24 VDC Push-Pull Output

HTL : 24 VDC \pm %20 Supply,
5 VDC TTL RS422 Line Driver Output

Cable Length

3M : 3 Meters
5M : 5 Meters
8M : 8 Meters
10M: 10 Meters
* Optional between 3 m to 50 m

Measuring Stroke

Optional
(50 to 20.000 mm)

MLC XXX

XX

XX

XXX

X

XX

X

XXXmm

Model

MLC 310
MLC 320
MLC 330

Resolution

01 : 1 μm | 05 : 5 μm
10 : 10 μm | 25 : 25 μm
62 : 62,5 μm | 80 : 80 μm
100 : 100 μm

Signal Output Type

3 : A, B, Z
6 : A, /A, B, /B, Z, /Z

Sensor Type

C : Cable
S : Spiral

MLC 420 SPECIAL FEATURES

- Integrated wear-free roller guide with steel ball bearings on steel rod
- Portable reference point
- Contactless system
- High resolution up to 0,005 mm
- Smooth slide
- High resistance to vibrations
- Full sealed protection class Ip67
- Excellent stability quadrature output
- Large mounting tolerances
- High accuracy

Especially it is recommended for applications with a measuring length of up to 2040 mm in high speed and high vibration environments and small places.

MLC 420 is usable right or left with its portable reference point. It has large mounting tolerances with its ergonomic design.



MLC 420

MLC 420 Technical Specifications

Resolution	5µm, 10µm, 25µm, 62.5µm (or other)
Output Type	Push-Pull or TTL RS422 Line Driver
Output Signals	A, /A, B, /B, Z, /Z
Input Current	Nominal 50 mA
Output Current	70 mA (For Every Channel)
Power Supply	10..30 VDC or 5 VDC
Housing Material	Aluminum
Magnetic Tape	B2 or B5 Nitril Rubber
Travel Velocity	3 m/s
Repeatability	± 1 Pulse
Operating Temperature	-25 to +85°
Protection Class	Ip67

MLC 410 SPECIAL FEATURES

- Self adjustment of the clearance between the guide and the carriage
- Double gasket protection
- Contactless system
- High resolution up to 0,005 mm
- Single reference marker
- High resistance to vibrations
- Full sealed protection class Ip67
- Excellent stability quadrature output
- Stainless steel cover protect
- High accuracy

The special design of the mounting points minimizes accuracy errors due to temperature changes. On the other hand, the MLC 410 series includes a special support that further improves its behavior against the vibrations caused by the machine.

The reader sensor has a connector. The linear encoder is supplied as a pre assembled unit. The linear encoder and reader sensor are connected to the aluminum support and it can be connected directly to the machine.



MLC 410

MLC 410 Technical Specifications

Resolution	5µm, 10µm, 25µm, 62.5µm (or other)
Output Type	Push-Pull or TTL RS422 Line Driver
Output Signals	A, /A, B, /B, Z, /Z
Input Current	Nominal 50 mA
Output Current	70 mA (For Every Channel)
Power Supply	10..30 VDC or 5 VDC
Electrical Connection	Cable max. 50m
Housing Material	Aluminum
Magnetic Tape	B5 Nitril Rubber
Travel Velocity	3 m/s
Repeatability	± 1 Pulse
Operating Temperature	-25 to +85°
Protection Class	Ip67

**MLC
400**

Order Code

Magnetic Tape
B5
B2 (Only MLC420)

Power Supply and Output

TTL : 5VDC ± %5 Power Supply
5 VDC TTL RS422 Line Driver Output

PP : 24 VDC ± %20 Power Supply
24 VDC Push-Pull Output

HTL : 24 VDC ± %20 Power Supply
5 VDC TTL RS422 Line Driver Output

Cable Length

3M : 3 Meters
5M : 5 Meters
8M : 8 Meters
10M: 10 Meters
* Optional Between 5m to 50m

Measuring Stroke

Optional, User Defined
(Several Standard Lengths from 50mm to 2.000 mm)

MLC XXX

XX

XX

XXX

X

XX

X

XXXmm

X

Model

MLC410
MLC420

Resolution

01 : 1µm | 05 : 5µm
10 : 10µm | 25 : 25µm
62 : 62,5µm | 80 : 80µm
100 : 100µm

Signal Output Type

2 : A, B
3 : A, B, Z
4 : A, /A, B, /B
6 : A, /A, B, /B, Z, /Z
*Optional One Z Reference Signal

Sensor Type

C : Cable
S : Spiral

LEFT / RIGHT

L : Left
R : Right

INCREMENTAL ROTARY ENCODERS SHAFTED ENCODERS



- Magnetic or Optical System
 - Incremental Measuring
 - 50 or 58 mm Body Diameter
 - Resolution up to 5.000 Pulse
 - 6 mm, 8 mm or 10 mm shaft diameter
 - Connector or Cable Output
 - Custom Design Available
- Economical Encoder

Suitable application uses include; Industrial machines, elevators, robots, plotters, cutting machines, injection molding machines, rotary x-y table, NC machine and other position or angle measurement.

It's what you need from your encoder and it's what you get with ATEK SENSOR, the recognized leader in motion feedback control, ATEK SENSOR delivers the most comprehensive encoder selection that's designed with you in mind. Whether you have a heavy, industrial or light-duty application on your hands, the family of trusted ATEK SENSOR brands can meet our specifications.

Suitable application uses include; Industrial machines, elevators, robots, plotters, cutting machines, injection molding machines, rotary x-y table, NC machine and other position or angle measurement.



S16 (M16, 8 Pin)
Socket Connector



S23 (M23, 12 Pin) Socket
Connector



Backside Poliemid
Spiral



Clamping Flange



Synchro Flange



Tacho Flange

ARC
ARS

* Standard Resolutions

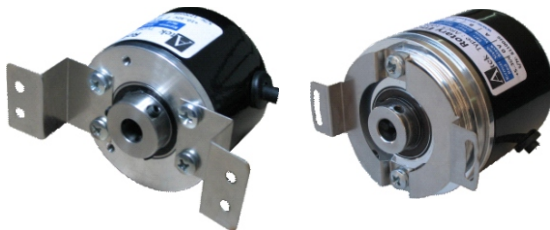
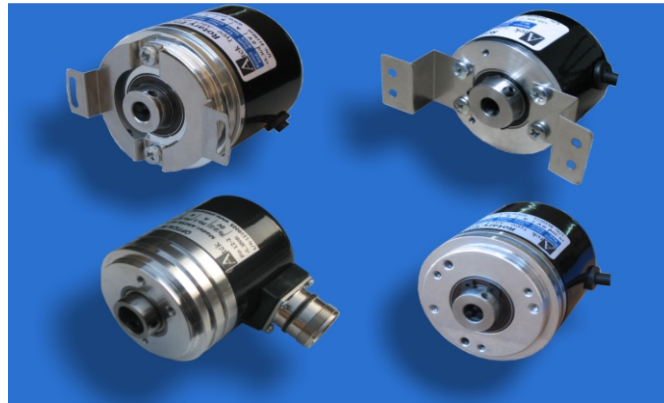
Optical	100 - 360 - 500 - 1024 - 2048 (or on request)
Magnetic	4 - 8 - 16 - 20 - 25 - 32 - 40 - 50 - 64 - 80 - 100 - 125 - 128 - 200 - 250 - 256 - 400 - 500 512 - 800 - 1000 - 1024 - 2048 - 3600 - 4096 - 5000 (or on request)

Order Code

Model ARC : Optical ARS : Magnetic	Body Size 50 : 50 mm 58 : 58 mm	Power Supply and Output PP : 10...30 VDC Supply : 10...30VDC Output TTL : 5 VDC Supply : 5 VDC TTL Output HTL : 10...30 VDC Supply : 5 VDC TTL Output HPL : 5...24 VDC Supply : 5...24 VDC Push-Pull Output OCL : Open Collector (Only Optical)	Cable Length 3M : 3M (Standard) 5M : 5M 8M : 8M 10M : 10M S16 : M16 8 Pin Socket Connector (Only Backside) S23 : M23 12 Pin Socket Connector (Only Sidewise and 58 mm body encoder)	Shaft Diameter 6 : 6 mm 8 : 8 mm 10 : 10 mm
---	--	---	---	---

XXX	S	XX	XXX	XXX	X	XX	X	X	X
Shaft Type S : Shafted		Resolution See Resolutions*		Output Signals 3 : A, B, Z 6 : A, /A, B, /B, Z, /Z		Cable Direction A : Backside Y : Sidewise AS : Backside + Spiral		Flange Type C : Clamping S : Synchro * T : Tacho * * S and T flanges are available for only 58 mm body encoder	

- Magnetic or Optical System
- Incremental Measuring
- 50 or 58 mm Body Diameter
- Resolution up to 5.000 Pulse
- 6 mm, 8 mm, 10 mm, 12 mm or 14 mm hole diameter
- Connector or Cable Output
- Custom Design Available
- Economical Encoder



FZ - "Z" Type Flange

FC - Circular Flange

Atek semi hollow shaft encoders' hole diameter can be between 6 mm to 14 mm. Standard hole diameters: 6 mm, 8 mm, 10 mm, 12 mm and 14 mm. The other hole diameters can be chosen on request.

User can connect the encoder by cable or connector socket. There are two options for socket connector. S16 socket connector is M16 and 8 pin. S16 socket connector can be at the backside of the encoder. S23 socket connector is M23 and 12 pin. S23 socket connector can be at the sidewise of the encoder.

Atek semi hollow shaft encoders are high-resolution encoder. Resolution can be chosen between 4 pulse to 5.000 pulse.

There are two body diameter option: 50 mm and 58 mm. S16 socket can be used for all body diameters but S23 socket can be used for only 58 mm body.



S16 (M16, 8 Pin) Socket
Connector

S23 (M23, 12 Pin) Socket
Connector

Backside Polimide
Spiral

* Standard Resolutions

Optical

100 - 360 - 500 - 1024 - 2048 (or on request)

Magnetic

4 - 8 - 16 - 20 - 25 - 32 - 40 - 50 - 64 - 80 - 100 - 125 - 128 - 200 - 250 - 256 - 400 - 500 - 512 - 800 - 1000 - 1024 - 2048 - 3600 - 4096 - 5000 (or on request)

Order Code

Model

ARC : Optical
ARS : Magnetic

Body Size

50 : 50 mm
58 : 58 mm

Power Supply and Output

PP : 10...30 VDC Supply
: 10...30VDC Output
TTL : 5 VDC Supply
: 5 VDC TTL Output
HTL : 10...30 VDC Supply
: 5 VDC TTL Output
HPL : 5...24 VDC Supply
: 5...24 VDC Push-Pull Output
OCL : Open Collector (Only Optical)

Cable Length

3M : 3M (Standard)
5M : 5M
8M : 8M
10M : 10M
S16 : M16 8 Pin Socket Connector
(Only Backside)
S23 : M23 12 Pin Socket Connector
(Only Sidewise and
58 mm body encoder)

Hole Diameter

6 : 6 mm
8 : 8 mm
10 : 10 mm
12 : 12 mm
14 : 14 mm

XXX	B	XX	XXX	XXX	X	XX	X	X	X
Shaft Type B : Semi Hollow Shafted (Blind)		Resolution See Resolutions*		Output Signals 3 : A, B, Z 6 : A, /A, B, /B, Z, /Z		Cable Direction A : Backside Y : Sidewise AS : Backside + Spiral		Flange Type FZ : "Z" Type Flange FC : Circular Flange	

INCREMENTAL ROTARY ENCODERS HOLLOW SHAFT ENCODERS



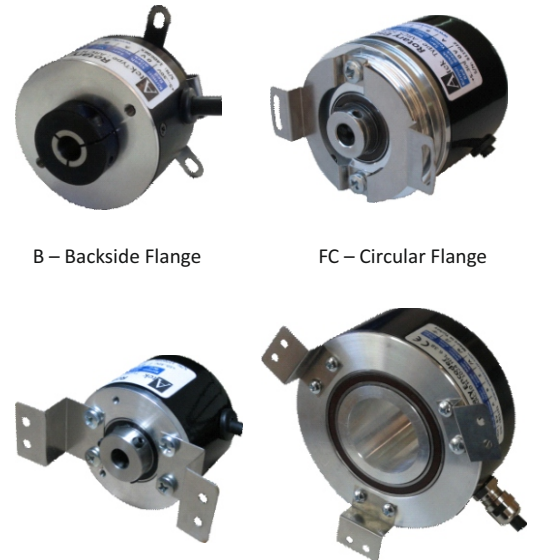
- Magnetic or Optical System
- Incremental Measuring
- 50 mm, 58 mm or 100 mm Body Diameter
- Resolution up to 10.000 Pulse
- Hole Diameter Between 6 mm to 42 mm
- Cable Output
- Custom Design Available
- Economical Encoder

Atek hollow shaft encoders' hole diameter can be between 6 mm to 42 mm. Standard hole diameters for 50 and 58 mm body: 6 mm, 8 mm, 10 mm. Standard hole diameters for 100 mm body: 30 mm, 32 mm, 38 mm, 40 mm, 42 mm. The other hole diameters can chosen on request.

Atek hollow shaft encoders are high-resolution encoder. Resolution can be chosen between 200 pulse to 10.000 pulse.

There are three body diameter option: 50 mm, 58 mm and 100 mm. Backside flange can be used for only 50 mm body. Circular flange can be used for 50 mm or 58 mm body encoder. "Z" type flange can be used for all encoder models. Or all flanges can be used for all encoders on request.

Standard cable lengths 3 meters, 5 meters, 8 meters and 10 meters. Optionally up to 35 meters.



B – Backside Flange

FC – Circular Flange

FZ - "Z" Type Flange

ARC
ARS

* Standard Resolutions

Optical	1024 (or on request)
Magnetic	200 - 400 - 625 - 800 - 1000 - 1250 - 1600 - 2000 - 2500 - 3200 - 4000 - 5000 6250 - 6400 - 8000 - 10.000 (or on request)

Order Code

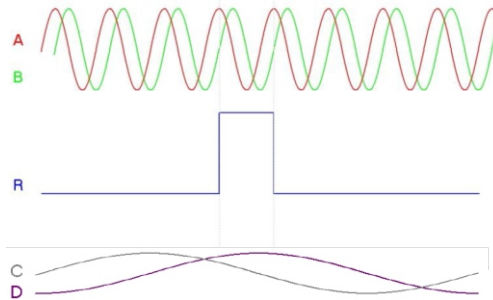
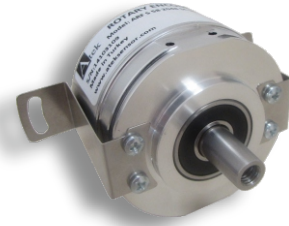
Model ARC : Optical ARS : Magnetic	Body Size 50 : 50 mm (Only Optical) 58 : 58 mm 100 : 100 mm (Only Optical)	Power Supply and Output PP : 10...30 VDC Supply : 10...30VDC Output TTL : 5 VDC Supply : 5 VDC TTL Output HTL : 10...30 VDC Supply : 5 VDC TTL Output HPL : 5...24 VDC Supply : 5...24 VDC Push-Pull Output OCL : Open Collector (Only Optical)	Cable Length 3M : 3M (Standard) 5M : 5M 8M : 8M 10M : 10M* * Optional other	Flange Type FZ : "Z" Type Flange FC : Circular Flange (Only 50 & 58 mm Body) B : Backside Flange (Only 50 mm Body)				
XXX	H	XX	XXX	XXX	XX	X	XM	XX
Shaft Type H : Hollow Shaft		Resolution See Resolutions		Output Signals 3 : A, B, Z 6 : A, /A, B, /B, Z, /Z		Hole Diameter 50 & 58 mm Body 100 mm Body 6 : 6 mm 3 0 : 3 0 m m 8 : 8 mm 3 2 : 3 2 m m 10 : 10 mm 3 8 : 3 8 m m 4 0 : 4 0 m m 4 2 : 4 2 m m		



**NEW
PRODUCT**

ARF S 58: SinCos Rotary Encoder

- Magnetic measurement principle
- Shafted 58 mm diameter body
- 2048 pulse resolution
- Absolute Sin/Cos output signals
- Easy mount design for motors



→ Output signal samples: A and B are incremental encoder signals which are generated 2048 times in single turn. R is reference signal, C and D are absolute sin/cos signals, which are generated once in single turn.

SAS: Singleturn absolute Rotary Encoder

- Magnetic measurement principle
- Shafted or semi hollow (end-hollow) shafted
- 37, 50 or 58 mm body diameter
- 6, 8 or 10 mm shaft or hole diameter
- 14 bit resolution: 0,02° accuracy
- Absolute output signals: CANopen, 4-20 mA, 0-10 V, Binary, TTL, Open Collector
- Redundant output option (Dual output on single device)
- Operating at very high speeds: 5000 RPM
- Protection class: IP 67



**ARF
SAS
MAS**



MAS: Multiturn absolute Rotary Encoder

- Magnetic measurement principle
- Shafted or semi hollow (end-hollow) shafted
- 37, 50 or 58 mm body diameter
- 6, 8 or 10 mm shaft or hole diameter
- Multiple turns: 0,02° accuracy
- Absolute output signals: CANopen, 4-20 mA, 0-10 V, Binary, TTL, Open Collector
- Redundant output option (Dual output on single device)
- Protection class: IP 67

→ All our custom absolute rotary encoders provides accurate position information; even when there is a power failure and the sensor continues to move.

Order Code

Model

ARF: SinCos
SAS: Singleturn absolute
MAS: Multiturn absolute

Body Diameter

50: 50 mm
58: 58 mm

Output Signals

C : CANopen
A : 4-20 mA
V : 0-10 V_{DC}
T : 5 V_{DC} TTL
O : Open Collector

Cable Direction

A : Backside
Y : Sidewise
S : Socket

XXX

X

XX

X

X

3 M

X

Body Type

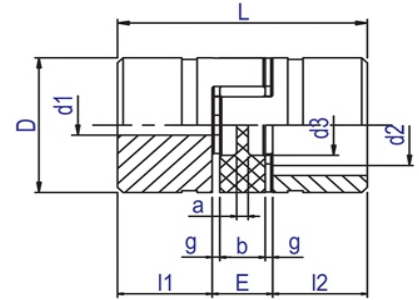
B: Semi Hollow
S: Shafted

Shaft or Hole Diameter

6: 6 mm
8: 8 mm
10: 10 mm

Cable Length

3M : 3 meters (standard)
5M : 5 meters
10M : 10 meters



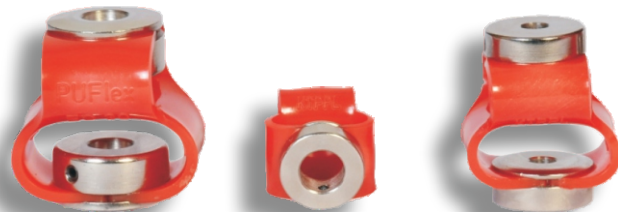
GT AND EC SERIES GENERAL PROPERTIES

- Flexible, backlash-free and durable design
- No maintenance or lubrication required, very long life
- Fully error-free and uniform power transmission
- Driven elements are connected with polyurethane which provides %100 electrical and vibrational isolation
- Durable against very high torques with the intermediate element polyurethane, separating metallic hubs from each other.
- All pieces are assembled co-axially and applied positive pre-stress to avoid any angular, parallel and axial misalignments

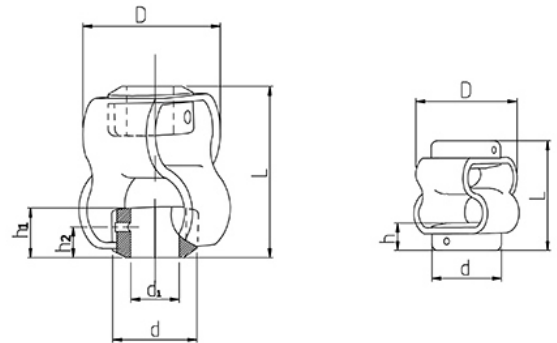
GT series;

- Aluminum body, special grade polyurethane spider
- 6, 8 or 10 mm different bore sizes
- D: 26 mm body (polyurethane) diameter
- L: 28 mm body length
- Clamping hub system

GT
EC



EC SERIES



EC series;

- Steel body, special grade polyurethane spider
- 6, 8 or 10 mm different bore sizes
- D: 26 mm body (polyurethane) diameter
- L: 28 mm body length
- Set screw system

Order Code

Model

GT
EC

Major and Minor Bore Sizes

GT

6 - 6 : 6 mm - 6 mm
8 - 8 : 8 mm - 8 mm
10 - 10 : 10 mm - 10 mm

EC

6 - 6 : 6 mm - 6 mm
6 - 8 : 6 mm - 8 mm
8 - 8 : 8 mm - 8 mm
8 - 10 : 8 mm - 10 mm
10 - 10 : 10 mm - 10 mm

X

XX

X - X

L = XX

D= Outside Diameter

GT **EC**
20 = 20 mm 26 = 26 mm

L = Length

GT **EC**
30 = 30 mm 28 = 28 mm

- Steel Spring, Aluminum alloy or Plastical material
- Different Body Types

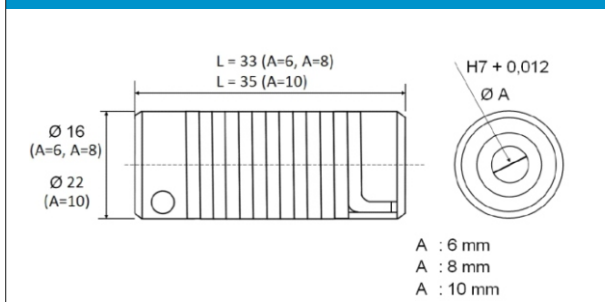
SC SERIES : Steel Spring **Set Screw**
 HT SERIES : Aluminum **Integral Clamp**
 HC SERIES : Aluminum **Set Screw**
 PC SERIES : Plastical **Set Screw**

- 6mm , 8mm and 10 mm bore diameter
 Optional between 3 mm to 18 mm
- High torque, long life
- One piece construction (Aluminum and plastical)
- Constant velocity transmission

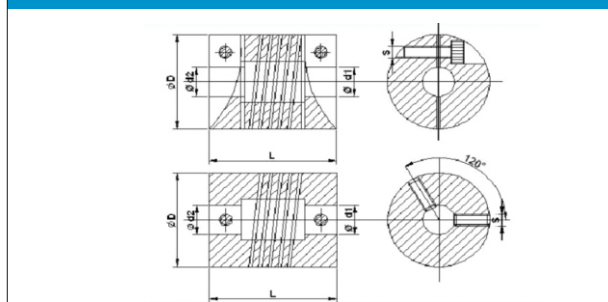


This shaft coupling connects two shafts to transmit torque, motion etc. It is a coupling which can adjust itself to misalignment of two shafts connected by it. Misalignment may be angular, parallel or skew. When motion transmission is important, the misalignment should not affect the velocity & acceleration of the shaft. This calls for a torsion ally rigid, yet flexible coupling. This couplings offer you this advantages using special machining processes. Given in this leaflet are various couplings used in listed applications.

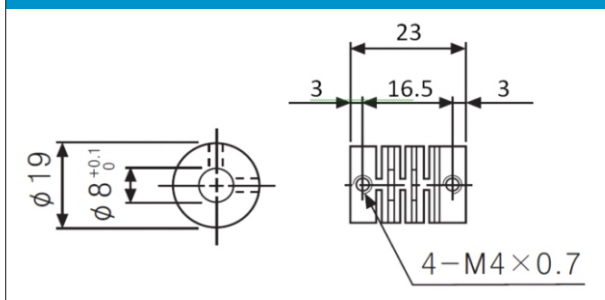
SC Series Mechanical Dimensions



HT – HC Series Mechanical Dimensions



PC Series Mechanical Dimensions



Order Code

Model

HT : Aluminum, integral clamp
 HC : Aluminum, set screw
 PC : Plastical, set screw
 SC : Steel spring, set screw

Major and Minor Bore Sizes

HT & HC	SC	PC
6 – 6 : 6 mm – 6 mm	6 – 6 : 6 mm – 6 mm	6 – 6 : 6 mm – 6 mm
8 – 8 : 8 mm – 8 mm	8 – 8 : 8 mm – 8 mm	8 – 8 : 8 mm – 8 mm
10 – 10 : 10 mm – 10 mm*	10 – 10 : 10 mm – 10 mm	
6 – 8 : 6 mm – 8 mm	12 – 12 : 12 mm – 12 mm*	
8 – 10 : 8 mm – 10 mm*	14 – 14 : 14 mm – 14 mm*	

*Only 25 mm Outside Diameter

X

XX

X - X

L = XX

D= Outside Diameter

HT & HC	SC	PC
16 = 16 mm	16 = 16 mm	19 = 19 mm
20 = 20 mm	21 = 21 mm	
25 = 25 mm		

L = Length

HT & HC	SC	PC
24 = 24 mm	33 = 33 mm	23 = 23 mm
28 = 28 mm		
32 = 32 mm		

SC
HT
HC
PC



- 2, 3 or 4 Axes
- Long Range Measurement
- Linear and Segmented Compensation
- Last Position Save
- Travel Limit Possible
- RS-232 Digital Output
- Tool Teach & Tool Storeroom
- Smooth & Simple Radius

2, 3 and 4 axes available ADR-10 Series Digital Readouts can meet the application in all machine tools with maximum performance and it includes features that are essential for increasing productivity. With high-capacity memory it is possible to save 1000 pcs program and for the lathes 1000 pcs tool memory. 5 different language choices are existed as Turkish, English, German, Spanish and Portuguese. Connection opportunity by touch probe is also available. With 8+1 digit display and standard resolution values with user designated resolution, ADR-10 is designed for your all requires.

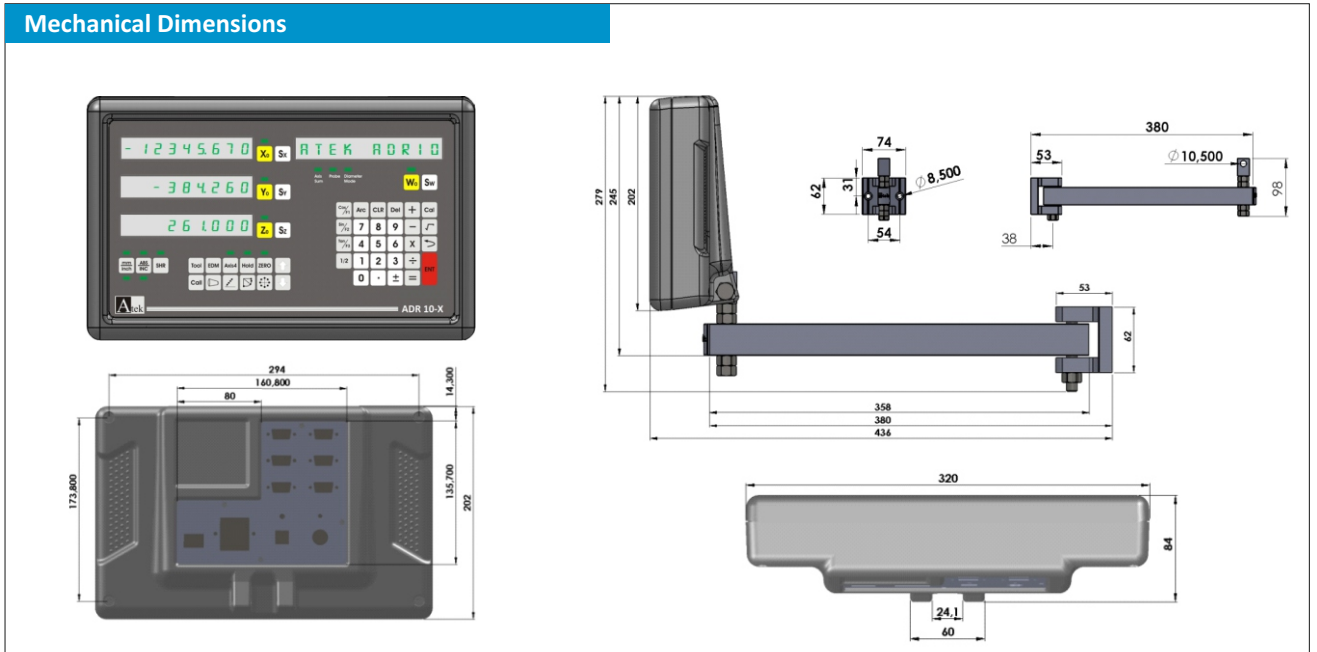
Technical Specifications

Number Of Axis	2, 3, 4
Display	8 Digit +1 Sign Digit, Green, Touring (-) Sign
Display Resolution	0.1 μ m, 0.2 μ m, 0.5 μ m, 1 μ m, 5 μ m, 10 μ m, 25 μ m Or User can designate as requested Available Push Pull or TTL
Input Signal	A,B,Z (Line Driver A, B, Z, /A, /B, /Z) Incremental Encoder Signals
Weight	2,7 Kg
Power Supply Voltage	85 – 265 VAC 50/60 Hz.
Storage Temperature	- 25 ~ 65 °C
Operation Temperature	-10 ~ 45 °C
Relative Humidity	%20 - %85
Dimensions (HxWxT)	202mm x 320mm x 84mm
Housing	Aluminum Injection Housing
Measuring Limits	- 99999,999 mm ~ 99999,999 mm



ADR

Mechanical Dimensions



- User Designated Resolution
- Angle Measuring
- Touch Probe Option
- 8+1 Digit Display
- 5 Language Options
- Aluminum Case
- High-Capacity Memory
- Tool Diameter Compensation



ADR 10 can be used for universal machines. User can select machine type in device menu. Milling, lathe, grinding, bohrwerk or spark erosion can be selected. User can change machine type any time. Angle measurement is possible on 4th (W) axis.



Functions:

- ABS / INC System
- Metric / Inch Measurement
- Axis Quick Zero Keys
- Bolt Hole Circle
- Shrink Function
- 1/2 Function
- Trigonometric Calculator
- Linear Error Compensation
- Segmented Error Compensation (100 Segments)
- Rectangular Pocket
- Centre Find
- Digital Filter Function
- Smooth Radius
- Simple Radius
- Bolt Hole Line
- Distance Measuring by Probe
- Part Angle Measuring
- Last 5 Digits On-Off
- Tool Diameter Compensation
- Linear Hole Patterns
- Inclined Z Axis Machining
- Taper Function
- Last Position Save
- Axis Addition
- Machine Reference Selection
- Tool Storeroom
- Tool Teach
- Datum Point Memory (1.000 Points)
- Travel Limit
- Coordinate Freeze (Hold)
- Value Addition / Subtraction
- Undo
- Pause / Sleep Mode

ADR

Order Code

Model

ADR 10

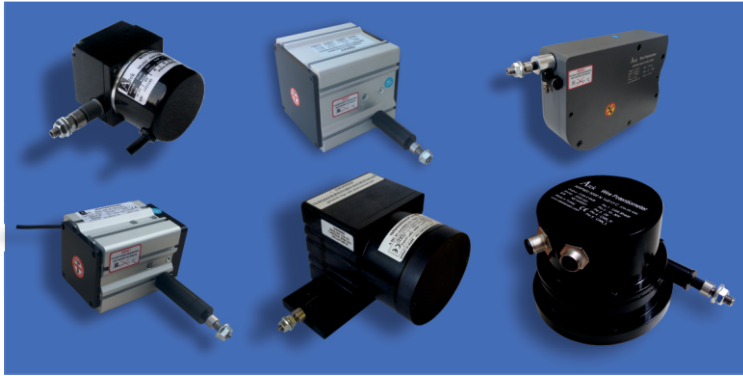
X

Number of Axis

- 2 : 2 Axes
- 3 : 3 Axes
- 4 : 4 Axes



DRAW WIRE SENSORS DRAW WIRE ENCODER



- Maximum measurement length 10 meters
- High resolution options;
0,4 mm - 0,2 mm - 0,1 mm - 0,05 mm
- 5 VDC or 10...30 VDC Power supply
- A, B, Z, /A, /B, /Z Encoder Signal Outputs
- High strength stainless steel wire
- 2 m/s maximum speed
- Wide temperature range of -10 to +70 °C
- IP65 Protection class
- Shock/Vibration resistant
- 3 meters cable
- 2,4N Maximum extension force
- Aluminum anodized body

AWE series wire encoders are incremental wire transducers that turn a linear motion into coded digital pulses. They are made of an incremental encoder, activated by the stroke of a, winding or unwinding, stainless steel wire. A special feature is their easy assembling. The linking together to a display or an electronic positioner supplies an excellent system to measure the dimensions on machine tools, automatic, wood, marble, glassworking machinery etc.

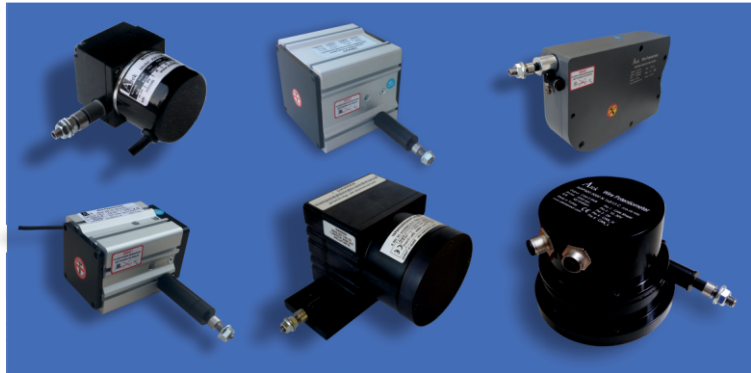
AWE

AWE 100	AWE 200	AWE 300
		
Measurement Length: 300 mm to 3000 mm or on request	Measurement Length: 1.000 mm to 7500 mm or on request	Measurement Length: 5.000 mm to 12.000 mm or on request
AWE 800	AWE 900	<p>*Measurement Length (mm)</p> <p>AWE 110 : 100 - 1250 AWE 120 : 300 - 3300 AWE 210 : 1000 - 6500 AWE 220 : 1000 - 7500 AWE 310 : 5000 - 12000 AWE 810 : 2000 - 6500 AWE 820 : 6000 - 15000 AWE 904 : 1000 - 3700 AWE 907 : 3000 - 7000 AWE 912 : 6000 - 12000</p> <p>*Other options available on request</p>
		
Measurement Length: 2000 mm to 15000 mm or on request	Measurement Length: 1.000 mm to 12000 mm or on request	

Order Code

Model AWE 110 AWE 310 AWE 907 AWE 120 AWE 810 AWE 912 AWE 210 AWE 820 AWE 220 AWE 904	Wire Length See Measurement Length*	Output Signals 3 (A,B,Z) 6 (A,/A,B,/B,Z,/Z)	Cable Direction A : Backside Y : Sidewise S : Socket
AWE XX	XX	XX	XXX
	Resolution 04 : 0,1 mm 02 : 0,05 mm (Standard) 01 : 0,025 mm	Power Supply and Output PP : 10...30 VDC Supply : 10...30VDC Output TTL : 5 VDC Supply : 5 VDC TTL RS422 Line Driver Output HTL : 10...30 VDC Supply : 5 VDC TTL RS422 Line Driver Output HPL : 5...24 VDC Supply : 5...24 VDC Push-Pull Output PTL : 5...30 VDC Supply : 5 VDC TTL RS422 Line Driver Output	Cable Length 3M : 3 meters (standard) 5M : 5 meters 10M : 10 meters

- Maximum measurement length 10 meters
- Potentiometric measuring
Or 0...10 VDC output
Or 4...20 mA output
- Maximum 42 V Power Supply
- High strength stainless steel wire
- 2 m/s maximum speed
- Wide temperature range of -10 to +70 °C
- IP54 Protection class
- Shock/Vibration resistant
- 3 meters cable
- 2,4N Maximum extension force
- Aluminum anodized body



The AWP series are draw wire potentiometric position transducers that turn a linear motion into a resistance variation. They are made of a precision rotating potentiometer operated by a, winding or unwinding, stainless steel wire. The potentiometer's output can be potentiometric, 0...10 VDC or 4...20 mA.

AWP 100	AWP 200	AWP 300
		
Measurement Length: 100 mm to 3300 mm or on request	Measurement Length: 1.000 mm to 7500 mm or on request	Measurement Length: 5.000 mm to 12.000 mm or on request
AWP 800	AWP 900	*Measurement Length Range (mm)
		AWP 110 : 100 - 1250 AWP 120 : 300 - 3300 AWP 210 : 1000 - 6500 AWP 220 : 1000 - 7500 AWP 310 : 5000 - 12000 AWP 810 : 2000 - 6500 AWP 820 : 6000 - 15000 AWP 904 : 1000 - 3700 AWP 907 : 3000 - 7000 AWP 912 : 6000 - 12000
Measurement Length: 2000 mm to 15000 mm or on request	Measurement Length: 1.000 mm to 12000 mm or on request	*Other options available on request

Order Code

Model

AWP 110 AWP 310 AWP 907
 AWP 120 AWP 810 AWP 912
 AWP 210 AWP 820
 AWP 220 AWP 904

Load Resistor

5 kΩ
 *Others on request

Cable Direction

A : Backside
 Y : Sidewise
 S : Socket

AWP XXX

XXX

5K

3M

X

Wire Length

See Measurement Length*

Cable Length

3M : 3 meters (standard)
 5M : 5 meters
 10M : 10 meters

OPTICAL LINEAR ENCODER SYSTEM OPTICAL MEASURING SCALE



- Optical Incremental Encoder output A, B, Z
- 5 V TTL / RS422 Line Driver Output
- Two square wave signals. TTL output with 90 deg. phase difference
- Robust shielded metal enclosure
- Accuracy: $\pm 5 \mu\text{m/m}$, $\pm 10 \mu\text{m/m}$
- With single/double sealing technologies resistant to dirt, humidity and dust
- Compact design, easy mounting
- High Resolution: 0,001 mm, 0,005 mm
- High tolerance to shock and vibration
- Measuring lengths: 50 mm up to 12000 mm
- 60 m/min traversing speed
- Reference mark every 50 mm

ALS Series sealed Optic Linear Encoder Scales are protected from dust, chips and splash fluids and are ideal for operation on machine tools. Aluminum housing and elastic sealing lips protect the scale, scanning carriage and guide way from chips, swarf, dirt and splash water the scanning carriage travels in a low-friction guide within the scale unit. It is connected to the external mounting block by a coupling that compensates unavoidable misalignment between the scale and the machine guide ways. Sealed linear encoders are available with full-size scale housings for high resistance to vibration up to 12000 mm measuring length.

Special Design Features:

- Scale and scanning unit protected by aluminum housing
- Scanning unit guided on scale 5 via ball bearings
- Coupling between scanning unit and mounting block to compensate small errors in machine guide way

Series	Measurement Strokes	Protecting
ALS-4	50 mm – 1000 mm	Single Sealing
ALS-5	50 mm – 1000 mm	Single Sealing
ALS-5	1100 mm – 12000 mm	Single Sealing

ALS TECHNICAL SPECIFICATIONS

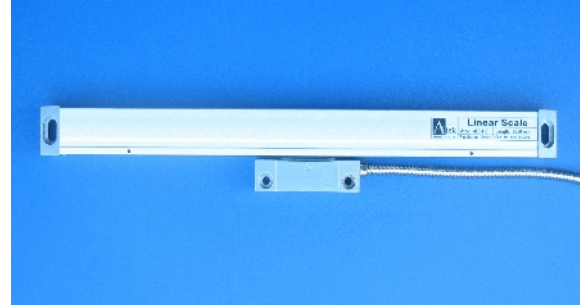
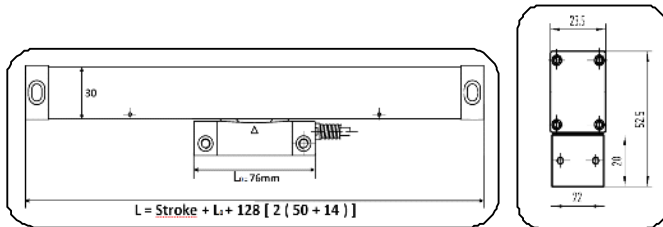
Output Circuit	TTL, RS422 Line Driver	
Measuring Standard	Glass	
Output signals	5VDC TTL Quadrature or 1Vpp Sinusoidal TTL : A, /A, B, /B, Z, /Z	
Resolution	1 μm , 5 μm or 1 Vpp Sinusoidal	
Grating pitch / Signal period	20 μm	
Accuracy	$\pm 10 \mu\text{m}$	
Power supply	5VDC	
Dimensions	See drawing	
Housing Material	Aluminum	
Reference Mark	1 reference mark every 50 mm.	
Travel velocity	60 m/min	
Repeatability	± 1 increment	
Operating temperature	0 to +50 ° C	
Storage temperature	- 40 to +55 ° C	
Protection Class	Ip54	
Cable length	50-500 mm scale	3 m armored cable
	600-2000 mm scale	5 m armored cable

Signal Name TTL	Sinus Voltage Signal	Open cable end Cable Colour	Conn. D-sub, (9 pin) Pin no.
A	0°	GREY	1
/B	180°	BROWN	2
+5VDC Power Supply	+5VDC Power Supply	RED	3
0 V - GND	0 V - GND	BLACK	4
/A	90°	BLUE	5
B	270°	GREEN	6
/Z	Z	YELLOW	7
Z	Vacant	WHITE	8
Shield	Shield	-	9

ALS

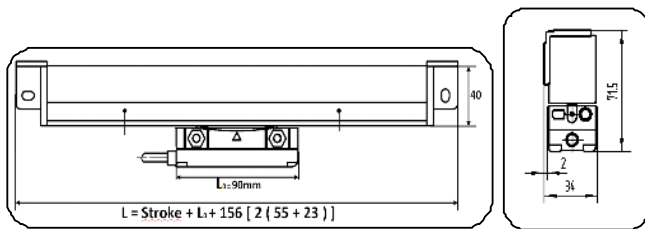
ALS 4 SERIES SLIM BODY

Length: 50mm – 1000mm
Single or Double Sealing



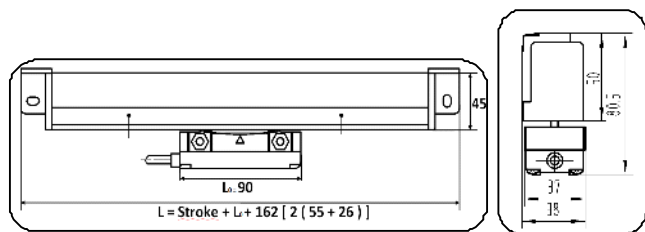
ALS 5 SERIES BOLD BODY

Length: 50mm – 1000mm
Single Sealing



ALS 6 SERIES LONG MEASURING

Length: 1100mm – 12000mm
Single Sealing



ALS

Order Code

Model

ALS

X

5K

XX

L=XX

Resolution

0,001 = 1 μ m
0,005 = 5 μ m
S = Sinusoidal

Measuring Stroke

200 = 200 mm
500 = 500 mm
1000 = 1000 mm
2000 = 2000 mm

Signal Output Type

6 = A, /A, B, /B, Z, /Z

Z-Signal: Standard = every 50mm
* Optional = One Z reference signal

Body Type

- 4 = Recommended for 50 mm to 1000 mm applications (Slim Body)
- 5 = Recommended for 50 mm to 1000 mm applications
- 6 = Recommended for over to 1000 mm applications
- 7 = Recommended for 100 mm to 900mm applications with double sealing (Slim Body)
- 8 = Recommended for over 1000 mm applications with double sealing



RCS3100

The contactless sensor utilizes the orientation of a magnetic field for the determination of the measurement angle. The magnetic field orientation is captured with an integrated circuit. An analogue output signal represents the calculated angle.



- Compact dimensions
- Non contacting measuring
- Very long life
- High accuracy
- Use in cramped installation conditions
- Low noise level on output signal
- Protection class Ip65

RCS Technical Specification	
Power Supply	5 VDC ±0,5V 24 VDC ±6V
Output Signal	Ratiometric or 0,1 ... 10 V or 4...20 mA
Measuring Range	0...30, 0...360 (10° steps)
Shaft	Stainless Steel
Housing	Aluminum
Reverse Voltage	Yes, only feeder
Maximum operational speed	120 min ⁻¹
Cable Length	500 mm
Temperature Range	-25 to +85°
Protection Class	Ip65

RCS



RCS2100



RCS2200



RCS3700

Order Code

Model

- RCS 2100
- RCS 2200
- RCS 3100
- RCS 3700

Power Supply

- TTL : 5VDC ±0,5V
- PP : 24 VDC ± 6V

Output Characteristics

- CW : Clockwise
- CCW : Counter clockwise

RCS XXX

XX

XX

XXX

XX

XXX

Angle

- 360 : 0...360°
- 30 : 0...30°

Output Signal

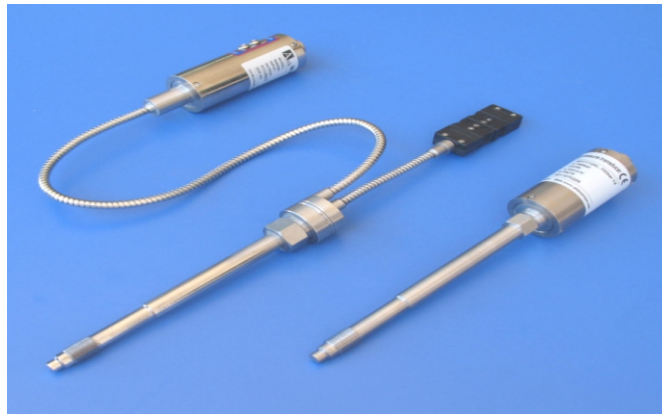
- V : 0...10 V
- A : 4...20 mA

Cable Length

- 3M : 3 Meters
- 05M : 0,5 Meters



- Good Stability and Anti-Jamming compatibility
- Economical Price
- Zero and Span Adjustable
- Various Amplified Signals Optional
4 - 20 mA, 0 - 10V or 3.33mV/V
- Flexible Capillary or Rigid Stem
- Internal 80% Shunt Calibration
- Strain gage Wheatstone bridge
- Diaphragm is 15-5PH stainless steel with TiN coating
100bar-1500psi, our diaphragm is 316SS corrugated one



MPT Technical Specifications

Pressure Range	0...350 BAR or 0..700 BAR standard (optional 150 BAR to 2000 BAR)
Output Signals	0 -10 VDC , 4 -20mA , 3.33mV/V
Input Signal	24 VDC (10~36 VDC) and 10VDC
Operating Temperature	900°F - 400°C
Over Pressure	1,5 x FS
Accuracy	%FS 0,3
Electrical Connection	6-pin socket (optional 5 pin or 8 pin)
Process Connection	½" -20 UNF-2A standard, (optional M14 x 1.5 , M18 x 1.5)
Case	Stainless Steel
Protection Class	IP 65
Thermocouple	J Type (FeCu Ni) or K Type (NiCr-Ni) with socket

MPT series melt pressure transmitters, have been designed specifically for harsh and rugged environments of the extrusion and polymer processing industries.

Melt pressure transmitter convert process into an amplified signal for long distance transmission free of noise interference.

It can provide various 4-20mA, 0-10VDC and 3.33mV/V directly input upper control system.

MPT

MPT-112 RIGID BODY STEM

- Rigid body stem
- Shunt calibration 80% FS
- Diaphragm 15-5 PH stainless steel with TiN coating
- Our diaphragm is 316S corrugated
- High diaphragm temp 320°C

- The equipment of rubber plastic machine and etc
- Good stability & interference resistance
- Between 100 BAR to 2000 BAR pressure range
- Anti jamming compatibility
- Zero and Span adjustable
- Various amplified signals
4-20 mA 0-10 VDC or 3,33 mV/V



MPT-133 FLEXIBLE BODY STEM

- Flexible body stem
- Shunt calibration 80% FS
- With "J" Type Thermocouple
- Diaphragm 15-5 PH stainless steel with TiN coating
- Our diaphragm is 316S corrugated
- High diaphragm temp 500c°

- The equipment of rubber plastic machine and etc
- Good stability & interference resistance
- Between 100 BAR to 2000 BAR pressure range
- Anti jamming compatibility
- Zero and Span adjustable
- Various amplified signals
4-20 mA 0-10 VDC or 3,33 mV/V



TT THERMOCOUPLE TRANSDUCER

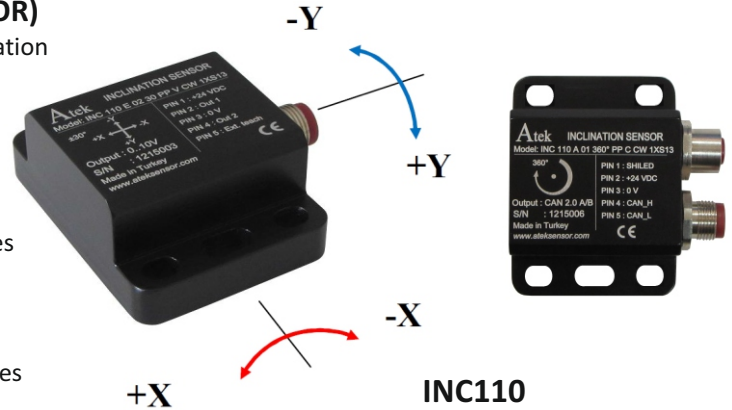
- Customized design
- Our diaphragm is 316S corrugated
- Temperature measurement ranges
-50°C...1200°C

- Good shock resistant
- High pressure durable
- Good stability
- High accuracy
- Various of manners of installation
- Thermocouple Type : K, E, J
- Flexible body stem



INC SERIES INCLINOMETER (TILT SENSOR)

- **INC110:** Measuring range up to $\pm 90^\circ$ inclination
- **INC210:** Measuring range up to 360° angle
- Single or Dual Axis option
- CANopen output
- Analog outputs: 0-10 V_{DC}, 4-20 mA
- Optional Redundant output
- Compensated cross sensitivity between axes
- High and stable accuracy $\pm 0.1^\circ$
- Re-determinable 0° point
- Shock/Vibration resistant
- Insensitive to moisture/temperature changes
- Easy to fit and mount
- High protection class: IP67
- Robust and compact metal housing



Inclinometer Applications

- Cranes, Excavators, Forklifts
- Fire trucks
- Solar Panels Movement Tracking
- Automation solutions
- Shipbuilding
- Robotics
- Marine transfer ballasts
- Construction machinery
- Camera Systems
- Wind Turbines
- Aviation
- Aerial Lift platform leveling
- Wheel alignment systems
- Precise laser cutting machines
- Aerospace engineering

INC



“YOUR SOLUTION PARTNER IN CRANE SYSTEMS”



Order Code

Model INC 110 INC 210	Axes 01 : Single Axis 02 : Dual Axes	Supply Voltage PP : 12 ... 30 V _{DC}	Output's Incremental Direction CW: Clockwise increasing output signal CCW: Counter-clockwise increasing
MLC XXX	XX	XX	XX
Sensor Type E: Tilt A: Angle	Measuring Range 90 : $\pm 90^\circ$ range 45 : $\pm 45^\circ$ range	Output Signal V : 0.1-10VDC Analog Voltage A : 4-20 mA Analog Current C : CANopen	Electrical Connection 3M : Standard 3M Cable 1XS13 : 5pin M12 Conn. 1XS13 : Redundant M12



EPA300

EPA SERIES GENERAL PROPERTIES

- 4 different analog input functions in one device
- RS-232, RS-485, USB or CANopen communication
- 2 or 4 relay outputs, adjustable in different functions
- High sampling rate: 3.5 kHz
- Converting analog signals (4-20 mA, 0-10 V, potentiometric, ratiometric to CANopen signals, CANopen signals to analog.
- Reversible analog output (10-0 V, 20-0mA)
- Fast and multi-parameter configuration via USB
- Compact design
- Easy and user friendly interface
- Tare function
- Menu hiding or password protection
- Multicolor LED bar graph on EPA300
- 3 analog outputs on one single device, EPA300

Technical Properties	
Supply Voltage	24 V _{AC/DC} 50/60 Hz 85-265 V _{AC} 50/60 Hz
Power usage	9 VA / 2,7 Watt Maksimum
Sensor Supply Voltage	Pot: 5 V _{DC} 3,33 mV/V: 10 V _{DC} 0-10V: 24 V _{DC} 4-20 mA: 24 V _{DC} CANopen: 24 V _{DC}
Max Sensor Supply Current	100 mA
Refresh Rate	3.5 kHz
Resolution	16 bit
Analogue Inputs	Potentiometric, 0-10 V, 4-20 mA 3,33 mV/V Ratiometric
Relay Outputs	4 Adet 250 V _{AC} 3A (Resistive Load) Relay
Serial Communication (Optional)	RS-232, RS-485, USB, CANopen
Analogue Outputs (Optional)	0-10 V, 4-20 mA, 0-20 mA
Electrical Connection	2,5 mm ² Universal Terminal
Weight	220 gr
Operating Temperature	0 ile 50 °C
Protection Class	IP60 Front Panel, IP20 Back Panel



EPA100

- Free custom MyPanelMeter program developed by our engineers for easy configuration via computer on USB connection
- All Eskon products are %100 designed and manufactured completely in Turkey, with years of engineering of Eskon Research and Development team. Eskon is ATEK Sensor's subbrand for process control devices.

PROCESS CONTROL DEVICES COUNTING INSTRUMENTS



- 600 KHz High Speed Input Frequency
- 4 Digit programmable projection ALC44
- 6 Digit programmable projection ALC94
- 7 Digit programmable projection ALC77 Series
- Prescale can be adjustable (0,000001 to 9999999)
- Tare, Hold, Reset, Offset, Const, Functions
- Excitation

The ALC Series universal programmable impulse counter of signals from Linear Encoder, Rotary Encoder sensors, NPN -PNP proximity sensors, mechanical switches.

This secures high accuracy, stability and easy operation of the instrument.

Model	Dimensions	Projection	Input Type
ALC44 Counter	44 x 44 mm	-999....9999	Linear or Rotary Encoder, NPN – PNP Proximity
ALC77 Counter	72 x 72 mm	-999999....9999999	Linear or Rotary Encoder, NPN – PNP Proximity
ALC94 Counter	96 x 48 mm	-99999....999999	T Linear or Rotary Encoder, NPN – PNP Proximity
ALC77B Batch Counter	72 x 72 mm	-999999....9999999	Linear or Rotary Encoder, NPN – PNP Proximity
ALC77T Tachometer	72 x 72 mm	-999999....9999999	Linear or Rotary Encoder, NPN – PNP Proximity

ALC

ALC44 / ALC77 / ALC94 SERIES UP/DOWN COUNTERS



- Linear Encoder Inputs (A, B, Z Inputs)
- Two Measuring channels (A, B)
- Measured Unit
 - Linear Encoder
 - Rotary Encoder
 - NPN – PNP Proximity / Mechanical switch
- 2 and 4 relay outputs
- Tare, Hold, Reset, Offset, Const Functions
- Power Supply 24VA/VDC or 86 – 265 VAC (110 or 220VAC) Selectable Input (Encoder, Tachometers, Batch Counters)

ALC77 SERIES OTHER COUNTER MODELS



ALC77 B BATCH COUNTER ALC77 T TACHOMETER

- 72 x 72 x 96,4mm mechanical dimensions
- Projection range “-999999...9999999”
- Sensor Input (A, B)
- Measured Unit
 - NPN – PNP Proximity / Mechanical switch
- ALC77B : Input Frequency 500 Hz
ALC77T : Input Frequency 5 KHz
- Power Supply 24VA/VDC or 86 – 265 VAC (110 or 220VAC)

- 4 Digit programmable projection ALP44, ALP77
- 6 Digit programmable projection ALP94
- Tare Function
- Automatic Calibration
- Excitation
- Analog Outputs
- High sampling rate



Model	Dimensions	Projection	Input Type
ALP44 P	44 x 44 mm	-999...9999	Potentiometric
ALP77 V	44 x 44 mm	-999...9999	0...10VDC Analog
ALP94 A	44 x 44 mm	-999...9999	0 / 4...20mA Analog
ALP77 P	72 x 72 mm	-999...9999	Potentiometric
ALP77 V	72 x 72 mm	-999...9999	0...10VDC Analog
ALP77 A	72 x 72 mm	-99999...9999999	0 / 4...20mA Analog
ALP94 UNI Multifunction	96 x 96 mm	-999999...9999999	Potentiometric and Analog 0...10VDC 0 / 4...20mA

ALP Series Instruments, 4 digits panel programmable measuring displacement and angle by means of linear potentiometers.

ALP-V Series Measuring instruments for 0...10VDC voltage.

ALP-A Series Measuring instruments for 0/4...20mA current.

ALP94UNI Instruments, 6 digits panel programmable Multifunction measuring instruments with the option of configuring the type of various analog inputs.

ALP

ALP44 and ALP77 SERIES MEASURING INSTRUMENTS

- **ALP 44** : 48 x 48 x 96,4 mm Dimensions
- **ALP 77** : 72 x 72 x 96,4 mm Dimensions
- Measured Unit
ALP Linear Potentiometer
ALP-V Range 0..10 VDC
ALP-A Range 0...20 mA / 4..20 mA
- Output 2 relay
- Projection range -999...9999
- Power Supply 24VAC , 220VAC , 24 VDC
- Sensor Supply voltage



ALP44-L SERIES PROCESS DISPLAY



- 48 x 48 x 96,4 mm dimensions
- Potentiometric or Analog Input
4-20mA or 0-10VDC
- Projection range -999...9999
- Power Supply 24VAC/VDC or 86 – 265 VAC
- Cost Effective

ALP94-UNI MULTIFUNCTIONAL



- 96 x 48 mm Dimensions
- Multifunction Inputs in one instruments
 - Linear Potentiometer
 - Voltage 0..10 VDC
 - Current 0...20 mA / 4..20 mA
- Standard 3 Relay (Optional 4 relay)
- Projection range -99999...999999
- Analog Out 0-10VDC or 4-20mA
- Data Output Rs232
- Power Supply 24VAC, 110 VAC, 220VAC, 24 VDC

INDUSTRIAL PRESSURE TRANSMITTERS PIEZORESISTIVE



- Pressure ranges -1...0 bar to 600 bar
- Standard ranges available from stock
- Excellent resistance to corrosive
- Stainless steel case
- EMC and reverse polarity protection
- Output Signals **4 - 20 mA** and **0 - 10 V** or others

The pressure transmitters BCT/BT are used to measure pressure in liquid or gaseous media, in the hydraulics, pneumatics, in machinery and equipment, as well as the process technology.

The stainless steel membrane is completely vacuum-tight, extremely burst-proof, water-proof can be used with all standard media. High accuracy and robust and compact structure guarantees a broad range of possible applications.

Different socket connection options and cable connection are available.

Technical Specifications

Pressure Range	50 mbar to 600 bar
Output Signal	4...20mA (2 Wires) , 0...10VDC (3 Wires)
Mechanical Connection	G1, G1/2, G1/4
Power Supply	+12...30 VDC
Accuracy	%0,5
Protection Class	IP65
Operating Temperature	-40°C to +85°C
Media Temperature	-40°C to +125°C
Housing Material	Stainless steel
Weight	140 grams

BCT

BCT 110 PIEZORESISTIVE PRESSURE SENSOR



“Standard Diaphragm / Industrial Applications”

- Piezoresistive pressure sensor
- Relative pressure measurement
- Industry and Sanitary Applications
- Stainless steel case and wetted parts
- EMC and Reverse polarity protection
- Analog output 4...20mA or 0...10VDC
- High Sensitivity
- M12 Socket

Applications

- ▶ Hydraulics ▶ Pneumatics ▶ Water Technologies ▶ Air Conditioning / Heating ▶ Testing Technology ▶ Process Control

BCT 210 PIEZORESISTIVE PRESSURE SENSOR



- Piezoresistive pressure sensor
- High sensitivity
- 22 mm Body Diameter
- Standard diaphragm
- Stainless steel case
- EMC and reverse polarity protection
- Analog output: 4...20mA or 0...10VDC
- 100 mbar to 600 bar

Applications

- ▶ Hydraulics ▶ Pneumatics ▶ Water Technologies ▶ Air Conditioning / Heating ▶ Cooling Industry ▶ Automation solutions



BCT22

- Piezoresistive pressure sensor
- Very small and compact design
- High sensitivity
- 22 mm body diameter
- Stainless steel case
- EMC and reverse polarity protection
- Analog output: 4...20mA or 0...10VDC

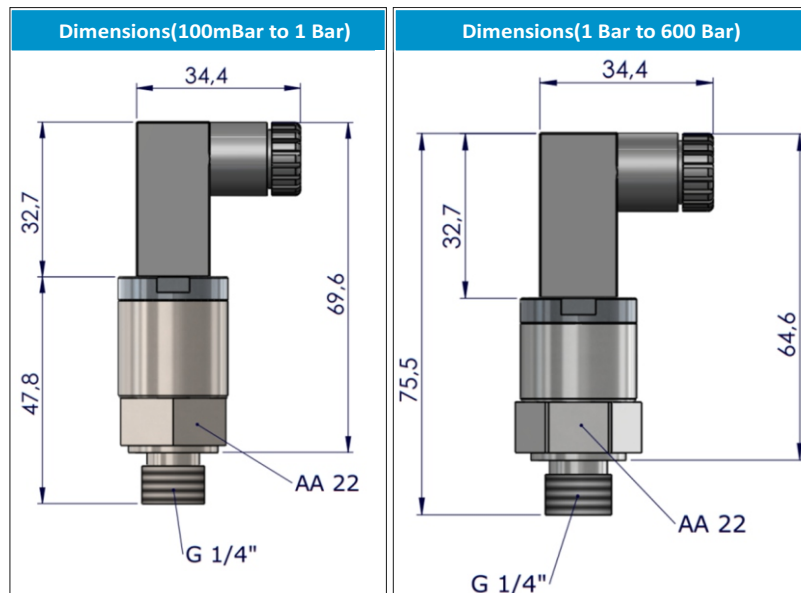
Technical Specifications

Pressure Range	50 mbar to 600 bar
Output Signal	4...20mA (2 Wires) , 0...10VDC (3 Wires)
Mechanical Connection	G1, G1/2, G1/4
Power Supply	+12...30 VDC
Accuracy	%0,5
Protection Class	IP65
Operating Temperature	-40°C to +85°C
Media Temperature	-40°C to +125°C
Housing Material	Stainless steel
Weight	140 grams



BCT 22 Applications

- Pneumatic Systems
- Hydraulic Systems
- Machines Equipments
- Air Cooling Systems
- Heating Systems
- Water Technologies
- Automation Applications



BCT22

Order Code

Model No

BCT 110
BCT 210
BCT 22

Output Signal

V: 0-10 VDC Analog Voltage
A: 4-20 mA Analog Current
V3: 0,5...4,5 VDC Analog Voltage
* Please ask for others

Electrical Connection

S: DIN43650 Female Socket
1M: 1 Metre Cable
2M: 2 Metre Cable
* Please ask for others

BCT 22

XXX

XXX

X

XXX



Pressure

100mB: 100 Milibar
16B: 16 Bar
600B: 600 Bar
* Between 100 milibar to 600 Bar

Mechanical Connection

G1/4: G1/4 Connection
G1: G1 Connection
G1/2: G1/2 Connection
* Please ask for other mechanical connections

INDUSTRIAL PRESSURE TRANSMITTERS DIFFERENTIAL PIEZORESISTIVE / FLUSH DIAPHRAGM



Technical Specifications

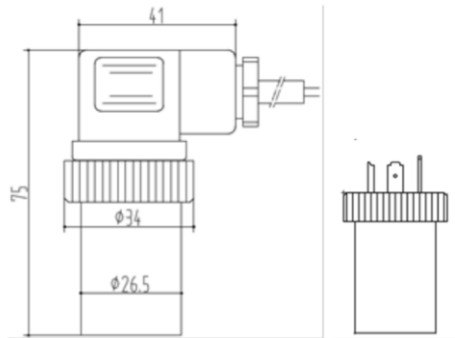
Pressure Range	100 mbar to 600 bar
Output Signal	4...20mA (2 Wires) , 0...10VDC (3 Wires)
Mechanical Connection	G1, G1/2, G1/4
Power Supply	+12...30 VDC
Accuracy	%0,5 @25°C
Protection Class	IP65
Operating Temperature	-40°C to +85°C
Media Temperature	-40°C to +120°C
Housing Material	Stainless steel
Weight	140 grams

BFT series are used for measuring any pressure difference between its two pressure ports and outputs a single value as differential.

BT series are used for food and chemical industry, where special flush diaphragms are used to prevent accumulation of pressurized material in various areas such as tanks, pipes etc.

BFT
BT

BFT 210 PIEZORESISTIVE DIFFERENTIAL PRESSURE SENSOR

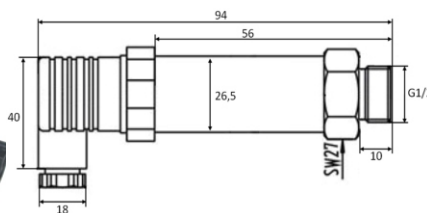


- MEMS based piezoresistive silicon sensor
- Perfect long term stability
- EMC and reverse polarity protection
- Analog output 4...20mA or 0...5V_{DC}
- High accuracy: %0,5 FS
- Same day delivery from stock
- CE Certificate
- Measuring range from 1 mBar to 25 Bar

Applications

- ▶ Used for measuring the pressure difference between two pressure ports

BT 214 FLUSH DIAPHRAGM



“Flush Diaphragm / Industrial Applications”

- Flush Diaphragm / Relative pressure measurement
- Chemistry , Food , Sanitary and etc. applications
- Stainless steel case and wetted parts
- EMC and Reverse polarity protection
- Analog output 4...20mA or 0...10VDC
- High Sensitivity
- Internal “ZERO” and “SPAN” adjustment

Applications

- ▶ Chemistry
- ▶ Food
- ▶ Sanitary
- ▶ Level Control
- ▶ Water Technologies
- ▶ Automation Applications

- Pressure Ranges -1...0 BAR to 600 BAR
- Standard ranges available from stock
- EMC and Reverse polarity protection
- Stainless Steel Case
- Economical Price
- Output Signals **4 - 20 mA** and **0 - 5V** or other



PTL Technical Specifications

Pressure Range	Between 50 Milibar to 25 Bar
Output	4...20mA (2 Wires) 0...10 VDC (3 Wires)
Overpressure	200%FS
Power Supply	+12...30 VDC
Precision	%0,25
Protection Class	IP68
Housing Material	Stainless Steel (304L)
Weight	350 grams

PTC 20 Series Technical Specifications

Pressure Range	Relative pressure measurement From 1 BAR to 100 BAR different ranges
Output	4...20mA (2 Wire), 0...5VDC (3 Wire)
Pressure Connection	G1/4" male
Electrical Connection	Packard Connector
Power Supply	24VDC
Accuracy	%1 @ +25°C
Protection Class	IP65
Media Temperature	-40°C to +80°C
Housing Material	Stainless steel (304L)
Weight	60 grams

PTL
PTC

PTL HYDROSTATIC LIQUID LEVEL MEASUREMENT

- Piezoresistive Silicon Chip Employed
- Level measuring between 1 meter to 200 meters
- EMC and Reverse polarity protection
- Non-aggressive Media Application
- Analog output 4-20 mA
- Cable Ventilated
- Excellent long term stability
- Cost Effective



Applications

- ▶ Hydras ▶ Reservoirs ▶ Lakers ▶ Rivers ▶ Sewage ▶ Treatment ▶ Water Tank

PTC AIR COMPRESSOR APPLICATIONS

- Standard Diaphragm
- Relative Pressure measurement
- Air Compressor Applications
- EMC and Reverse polarity protection
- Analog output 4-20 mA or 0...5V DC
- Standard ranges available from stock
From 1 BAR to 100 BAR
- Cost Effective



Applications

- ▶ Air Compressor ▶ Cooling Units ▶ Test Equipments

About Us



ATEK Electronics Sensor Technologies Inc. has certainly been the market leader for position control sensors and measuring devices industries in Turkey since its establishment in 2002.

All of our sensors which are now well being used in Turkey and more than 60 countries throughout the entire world, for measuring linear and circular movements of various kinds of machinery; such as linear transducers, non-contacting magnetic encoders, rotary sensors, draw wire sensors, optical linear scales, digital readout systems, tilt sensors, pressure transmitters and potentiometers are completely hassle-free, long-lasting and of outstanding quality.



Our wide product range allows us to always find the optimal customized solutions for our customers in various industries with different applications for measuring, such as plastic injection machinery, iron and steel machinery, packaging machinery, wood marble and glassworking machinery, bending machinery as press brakes, textile machinery, hydraulics, robotics etc.

Cooperation between our skilled sales team and advanced engineering team, allows us to do all electronical and mechanical design and manufacturing in our high-tech facility in Turkey; and deliver our state of the art products to beloved customers and partners in very short times. We are well prepared and excitingly interested in building long-term relationships with our partners and providing the best solutions for them.

ATEK Sensor Techonologies; your ultimate solution partner for your automation applications!



Atek Sensor Technology Incorporation's 3000 m² high-tech facility located in Istanbul, Turkey



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- ▶ Vibration Absorbing System

APPLICATIONS

- ▶ Automation Applications
- ▶ Plastic Enjection Machines
- ▶ Press Brake Machines
- ▶ Bending Machines
- ▶ Sheet Metal Working Machines
- ▶ Profile Cutting Machines etc...





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