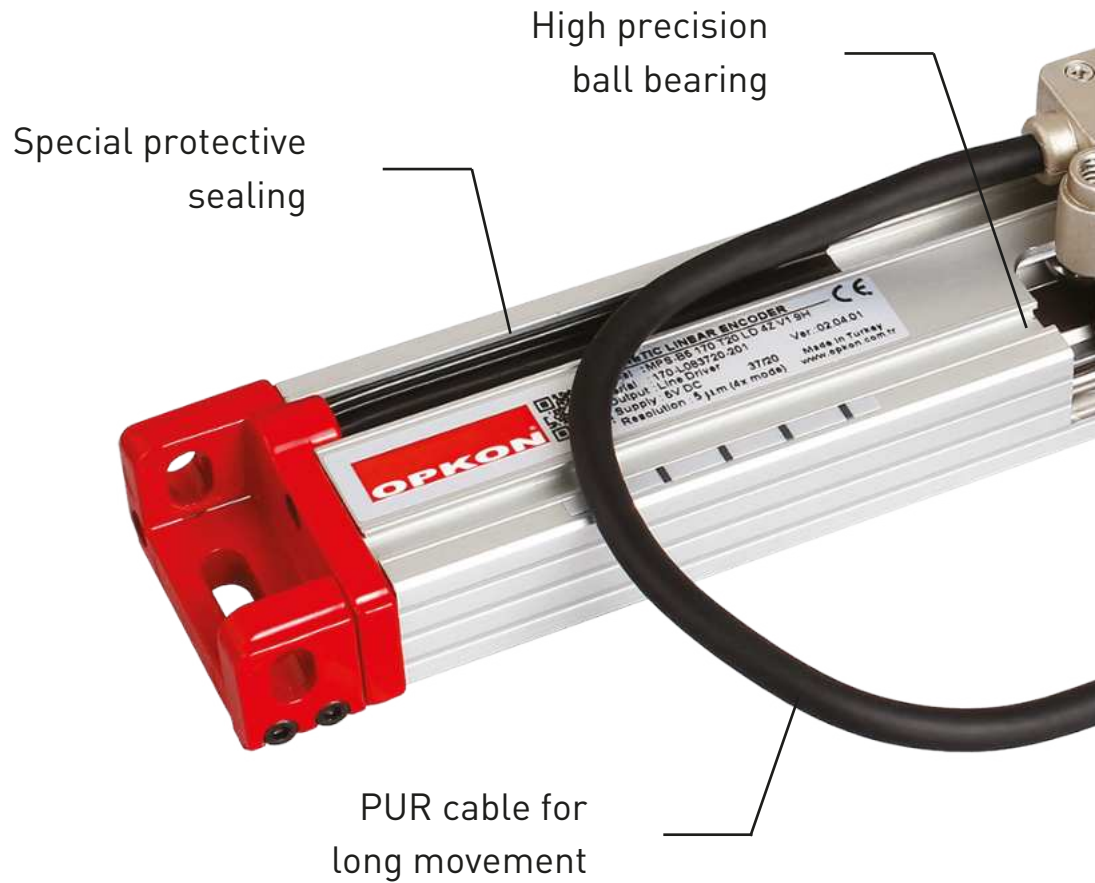


MPS

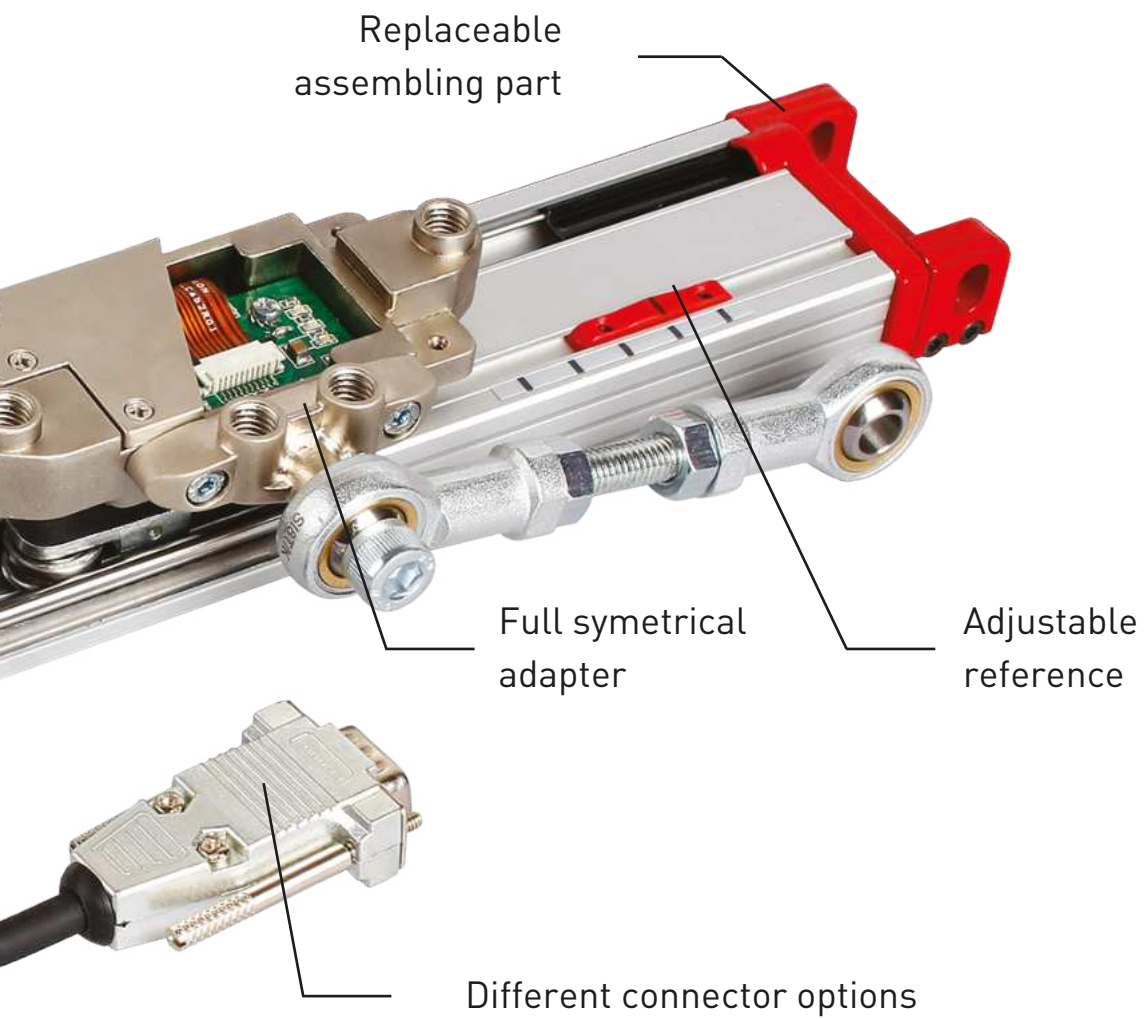
Magnetic Linear Incremental Encoder

High Precision, High Performance Press Brake Scale

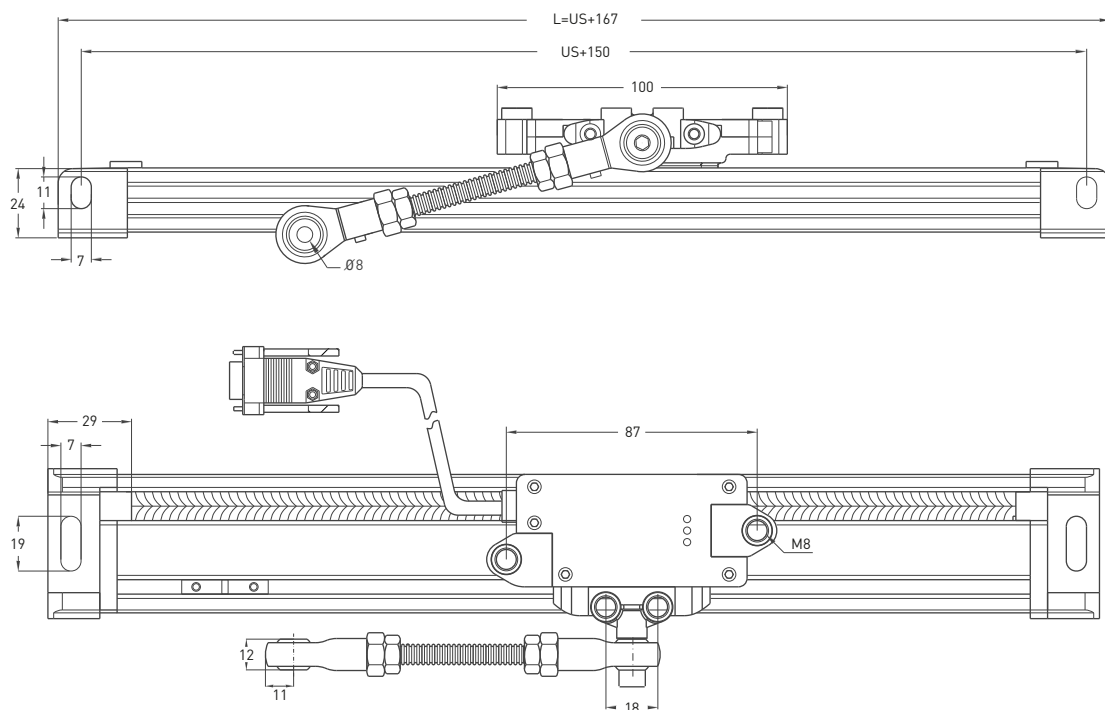


Technical Specifications

Type of measurement	Magnetic incremental non-contact
Measurement stroke	100 - 2000 mm
Resolution	Standard: 5 µm (4x mode), Optional : 2,5 / 5 / 10 / 12,5 / 20 / 25 µm (4x mode)
Repeatability	± 5 µm
Accuracy	Up to ± 20 µm
Output channels	A, B, Z / A, Ȧ, B, Ḃ, Z, Ż
Output type	TTL, Linedriver, Push-Pull, High Linedriver
Power supply	5 VDC (Standard), 8 - 24 VDC (Optional)
Power consumption (without load)	<40 mA (24 VDC)
Electrical connections	DB9 connector with 1 m cable or M16x8 pin connector
Displacement speed	<3 m/s
Case material	Anodized aluminium
Protection level	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



Mechanical Specifications



MLI

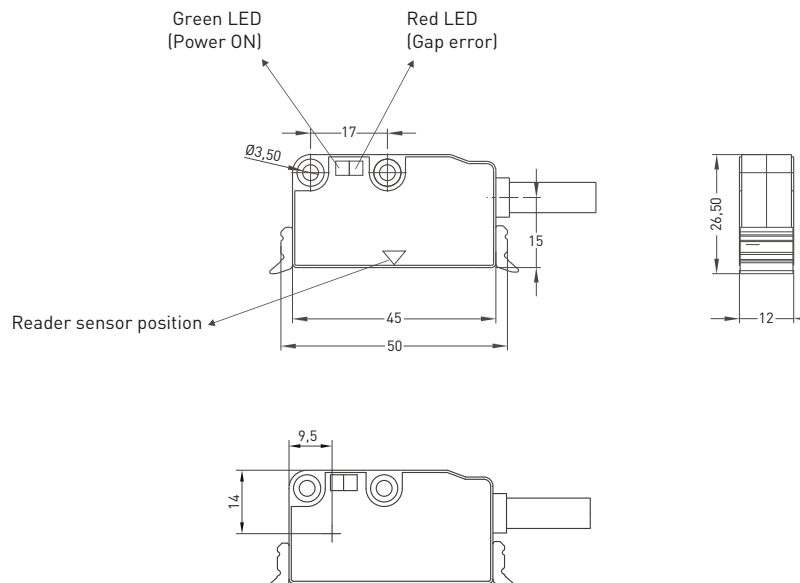
Magnetic Linear Incremental Encoder



Technical Specifications

Pole pitch	5 mm
Gap sensor/tape (max)	B5 : 2,5 mm
Resolution	2,5 / 5 / 10 / 12,5 / 20 / 25 µm (4x mode)
Type of measurement	Magnetic incremental non-contact
Accuracy	Up to ± 20 µm
Output signal type	TTL, Linedriver, Push-Pull, High Linedriver
Power supply	8 - 24 VDC (standard), 5 VDC (optional)
Electrical connections	2,5 m cable (standard), 1 m cable with DB9 connector (optional)
Case material	Zamac with nickel satin coating
Displacement speed	3 m/s with LED indicator (standard) 15 m/s without LED indicator (optional)
Protection level	IP 66
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Mechanical Specifications



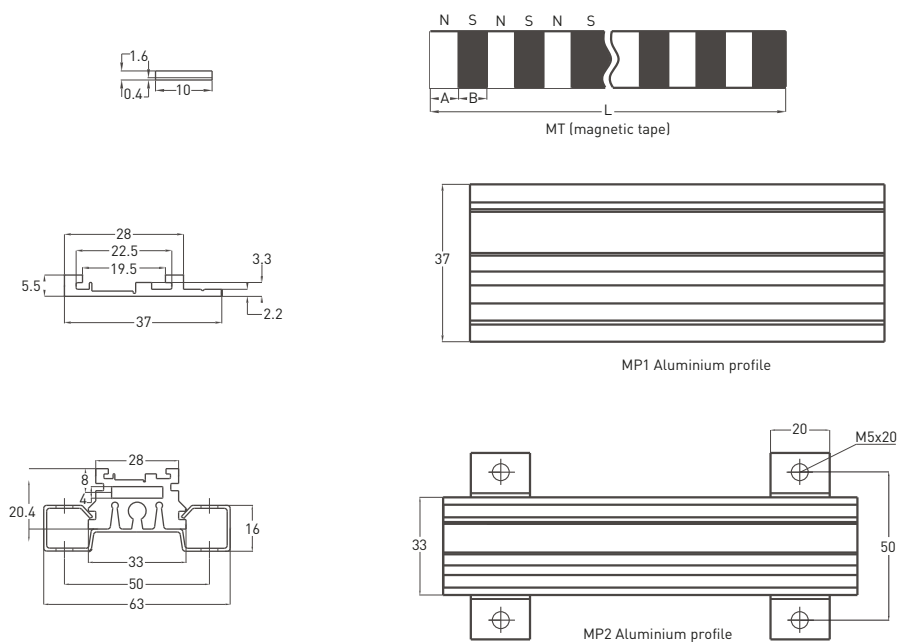
MT2, MT5 Magnetic Tape MP1, MP2 Aluminium Profile



MT Technical Specifications

Pole pitch	2 mm, 5 mm
Accuracy	$\pm 40 \mu\text{m}$
Dimensions	10 mm x 1,5 mm
Max. stroke	Up to 50 m single piece
Cover strip	Stainless steel
Mechanical fixing	Self adhesive
Protection level	IP 67
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Mechanical Specifications



MLC

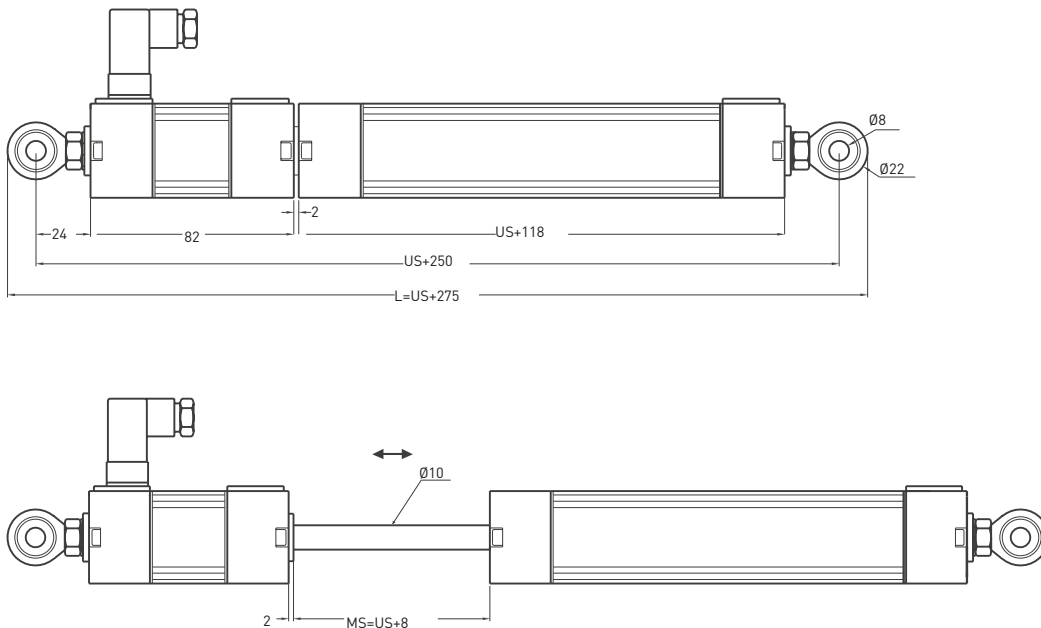
Magnetic Linear Incremental Encoder Special for Roll-Bending Machinery



Technical Specifications

Type of measurement	Magnetic incremental non-contact
Measurement stroke	50 - 800 mm
Resolution	2,5 / 5 / 10 / 12,5 / 20 / 25 µm (4x mode)
Accuracy	± 40 µm
Output channels	A, B / A, \bar{A} , B, \bar{B}
Output type	TTL, Linedriver, Push-Pull, High Linedriver
Power supply	8 - 24 VDC or 5 VDC
Power consumption (without load)	<40 mA (24 VDC)
Electrical connections	4 pin connector (standard), 1 m cable (optional)
Displacement speed	<3 m/s
Case material	Anodized aluminium
Mechanical fixing	Ball joints on the both sides
Protection level	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Mechanical Specifications



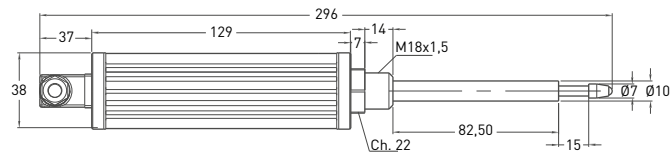
Magnetic Linear Incremental Encoder
Internal Spring Type



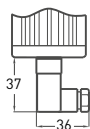
Technical Specifications

Type of measurement	Magnetic, incremental
Measurement stroke	15 mm
Resolution	1024 pulse / mm
Accuracy	± 10 µm
Output channels	A, B, \bar{A} , \bar{B}
Output type	Push-Pull, Linedriver, HLD
Supply voltage	8 - 24 VDC
Power consumption (without load)	< 50 mA
Electrical connection	4 pin connector
Max. speed	< 3 m/s
Case material	Anodized aluminium
Protection level	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Mechanical Specifications



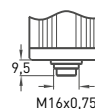
4 pin
Hydraulic type connector
configuration



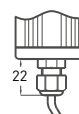
5 pin connector
configuration



8 pin connector
configuration



Cable
configuration



MLIP

Magnetic Linear Incremental Encoder

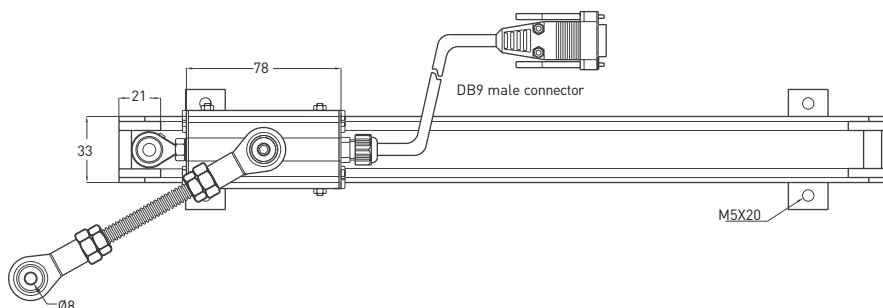
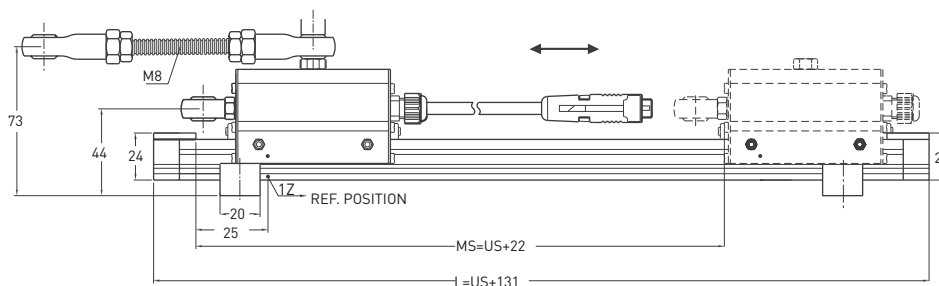
Excellent Solution for Outdoor Applications and Stone Machinery



Technical Specifications

Type of measurement	Magnetic incremental contactless
Measurement stroke	50 - 50000 mm (can be extend up to 50 meters)
Resolution	2,5 / 5 / 10 / 12,5 / 20 / 25 μ m resolution (4x mode)
Accuracy	$\pm 40 \mu$ m
Output channels	A,B,Z or A, \bar{A} , B, \bar{B} , Z, \bar{Z}
Output type	Push-Pull, TTL, Linedriver or High Linedriver
Power supply	5 VDC or 8 - 24 VDC
Reference position	Optional
Power consumption(without load)	< 40 mA (24 VDC)
Electrical connections	2.5 m cable standard, DB9 connector with 1 m cable
Case material	Anodized aluminium
Protection level	IP 66
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Mechanical Specifications



PRODUCTION RANGE

**RESISTIVE
POTENTIOMETRIC**



Linear Potentiometers
Long Stroke Serie

**RESISTIVE
POTENTIOMETRIC**



Linear Potentiometers
Short Stroke - Compact Serie

ANALOG V/mA



Linear Potentiometers
Internal Voltage - Current Conditioner Serie

**Sensopulse[®]
MAGNETOSTRICTIVE**

ANALOG V/mA



Non-Contact Magnetostrictive
Position Sensors

**Sensopulse[®]
MAGNETOSTRICTIVE**



CANopen



CANbus



Non-Contact Magnetostrictive
Position Sensors

**Sensopulse[®]
MAGNETOSTRICTIVE**

**RESISTIVE
POTENTIOMETRIC**

ANALOG V/mA



In-Cylinder
Position Sensors

PRODUCTION RANGE

INCREMENTAL 



Optic / Magnetic
Rotary Encoders

 Sine
Cosine

 BISS
INTERFACE

 SSI



Optic Rotary Absolute Encoders
(for synchronous gearless motors)

RESISTIVE
POTENTIOMETRIC

INCREMENTAL 

ANALOG V/mA



Draw Wire Potentiometers
Draw Wire Encoders

RESISTIVE
POTENTIOMETRIC

ANALOG V/mA



Rotary Sensors Magnetic,
Contactless Analog Output

INCREMENTAL 



Magnetic Linear Encoders

 PROFIBUS

 CANopen

 Modbus

 EtherCAT



Analog-FieldBUS Converters



Panel-Type Measurement and Control Devices



Hot Runner Temperature Controls



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Headquarter, R&D, Production

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