



Model MPS

Magnetic Linear Incremental Encoder

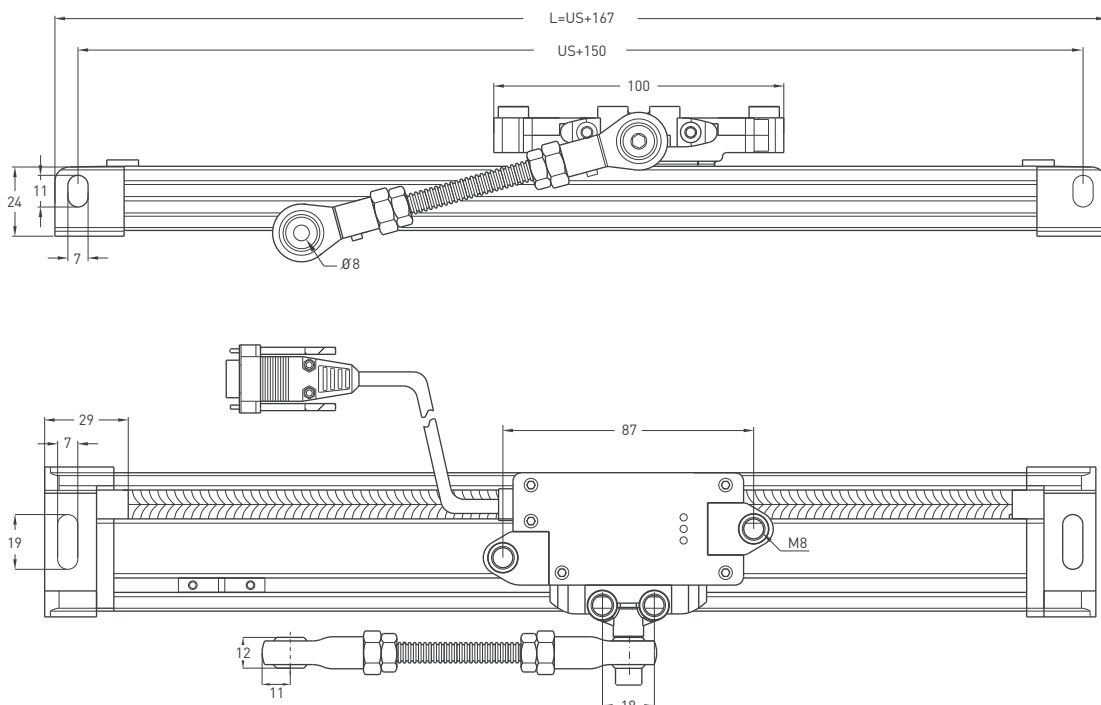
High Precision, High Performance Press Brake Scale



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	$\pm 5 \mu\text{m}$
Accuracy	$\pm 15 \mu\text{m}$
Output channels	A, B, Z / A, \bar{A} , B, \bar{B} , Z, \bar{Z}
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



Model MLC

Magnetic Linear Incremental Encoder

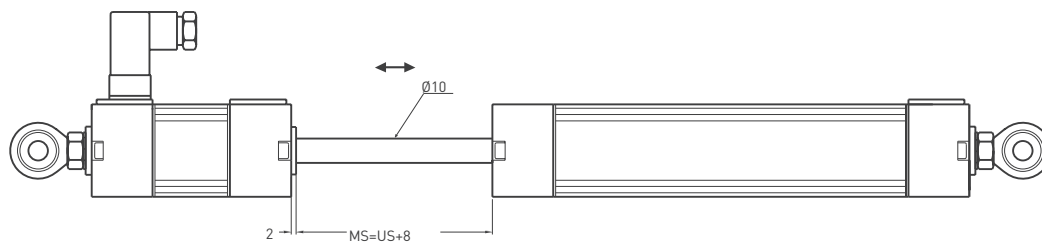
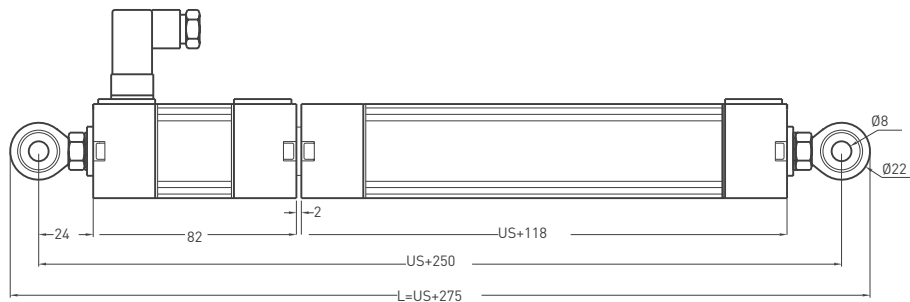
Special for Roll-Bending Machinery



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	$\pm 40 \mu\text{m}$
Output channels	A, B, Z / A, \bar{A} , B, \bar{B} , Z, \bar{Z}
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



Model MLCS

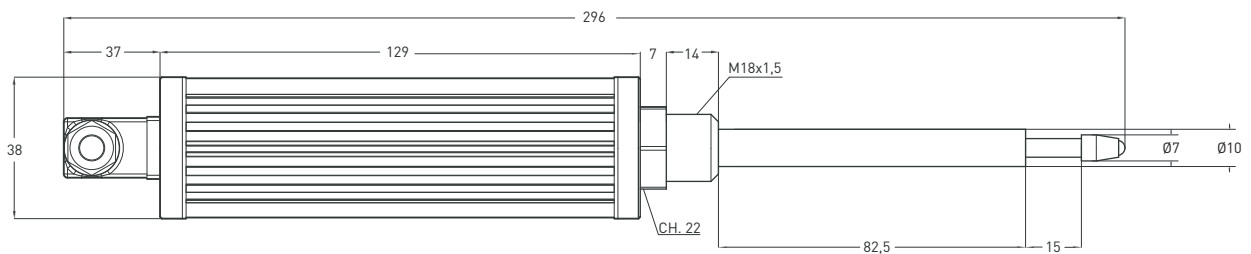
Magnetic Linear Incremental Encoder

Internal Spring Type



Technical Specifications	
Type of measurement	Magnetic, incremental
Measurement stroke	15 mm
Resolution	1024 puls / mm
Accuracy	$\pm 10 \mu\text{m}$
Output channels	A, B, Z / A, \bar{A} , B, \bar{B} , Z, \bar{Z}
Output type	TTL, Linedriver, Push-Pull, High Linedriver
Power supply	8 -24 VDC
Power consumption (without load)	< 50 mA (24 VDC)
Electrical connections	4 pin connector
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



Model MLIP

Magnetic Linear Incremental Encoder

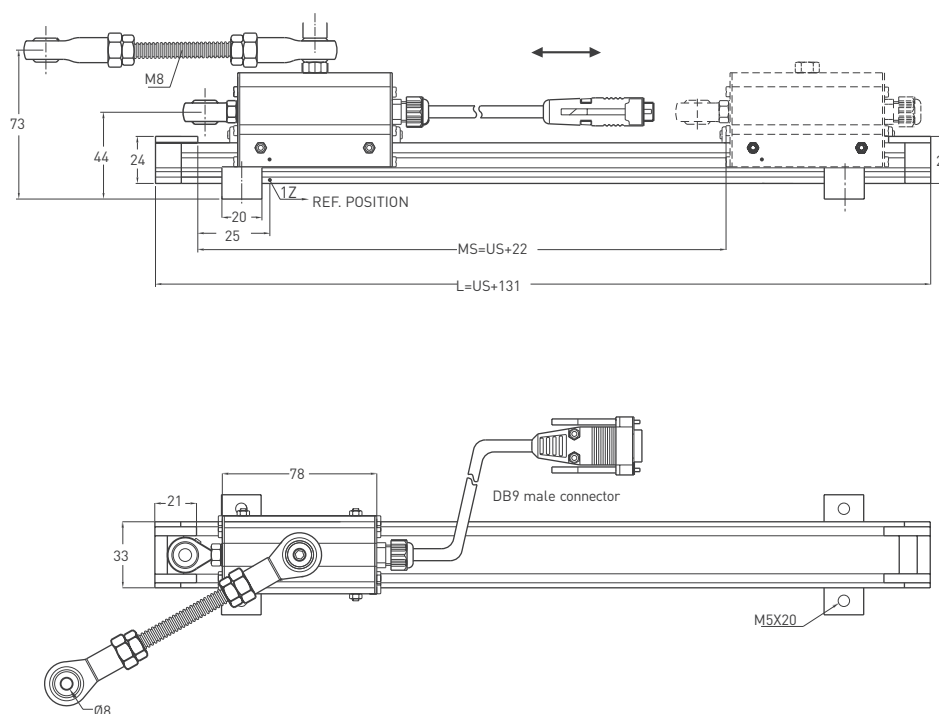
Excellent Solution for Outdoor Applications and Stone Machinery



Technical Specifications

Type of measurement	Magnetic incremental contactless
Measurement stroke	50 - 50000 mm (up to 50 meters)
Resolution	2,5 / 5 / 10 / 12,5 / 20 / 25 μ m (4x mode)
Accuracy	\pm 40 μ m
Output channels	A, B, Z / A, \bar{A} , B, \bar{B} , Z, \bar{Z}
Output type	TTL, Linedriver, Push-Pull, High Linedriver
Power supply	8 -24 VDC or 5 VDC
Reference position	Optional
Electrical connections	2,5 m cable (standard), DB9 connector with 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



Model MLI

Magnetic Linear Incremental Encoder

Magnetic Band

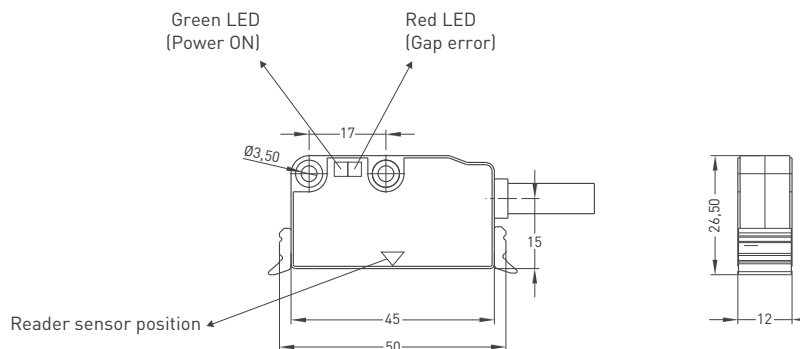
Aluminium Profiles



MT Technical Specifications	
Pole pitch	5 mm
Accuracy	± 40 µm
Dimensions	10 mm x 1,5 mm
Displacement speed	Up to 50 m
Cover strip	Stainless steel
Mechanical fixing	Self adhesive
Protection level	IP 67
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

MLI Technical Specifications	
Type of measurement	Magnetic incremental non-contact
Pole pitch	5 mm
Gap between measuring head and magnetic band	2,5 mm
Resolution	2,5 / 5 / 10 / 12,5 / 20 / 25 µm (4x mode)
Accuracy	± 15 µm
Output channels	A,B,Z / A,Ā, B,Ḃ, Z,Z̄
Output 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
Case material	ZAMAC with nickel satin coating
Displacement speed	< 3 m/s LED with indicator (standard) < 15 m/s LED without indicator (optional)
Protection level	IP 66
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Mechanical Specifications	
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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

Modbus

SSI

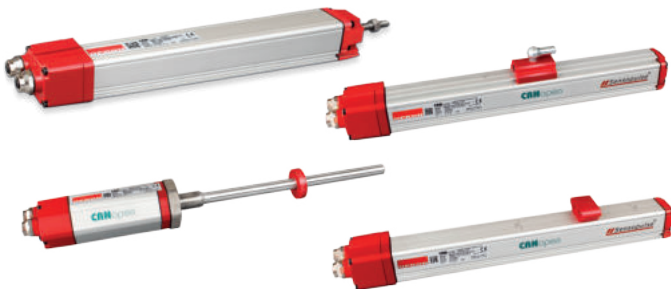
CANopen

PROFIBUS

IBISS
INTERFACE

CANbus

EtherCAT



Non-Contact Magnetostrictive
Position Sensors

Sensopulse
MAGNETOSTRICTIVE

RESISTIVE
POTENTIOMETRIC

ANALOG V/mA



In-Cylinder
Position Sensors

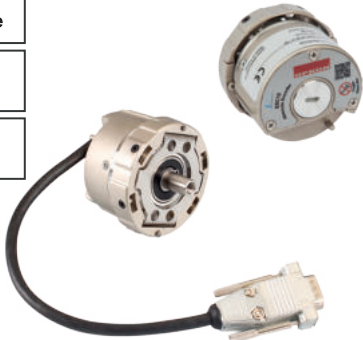
PRODUCTION RANGE

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

WORLDWIDE SALES NETWORK



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