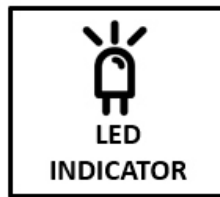
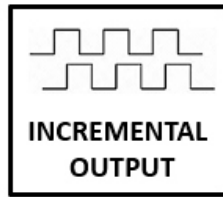
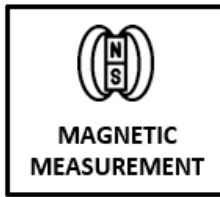


MLC-520

“Magnetic Non-Contact Measurement,
For Press Brake and Bending
Machines”

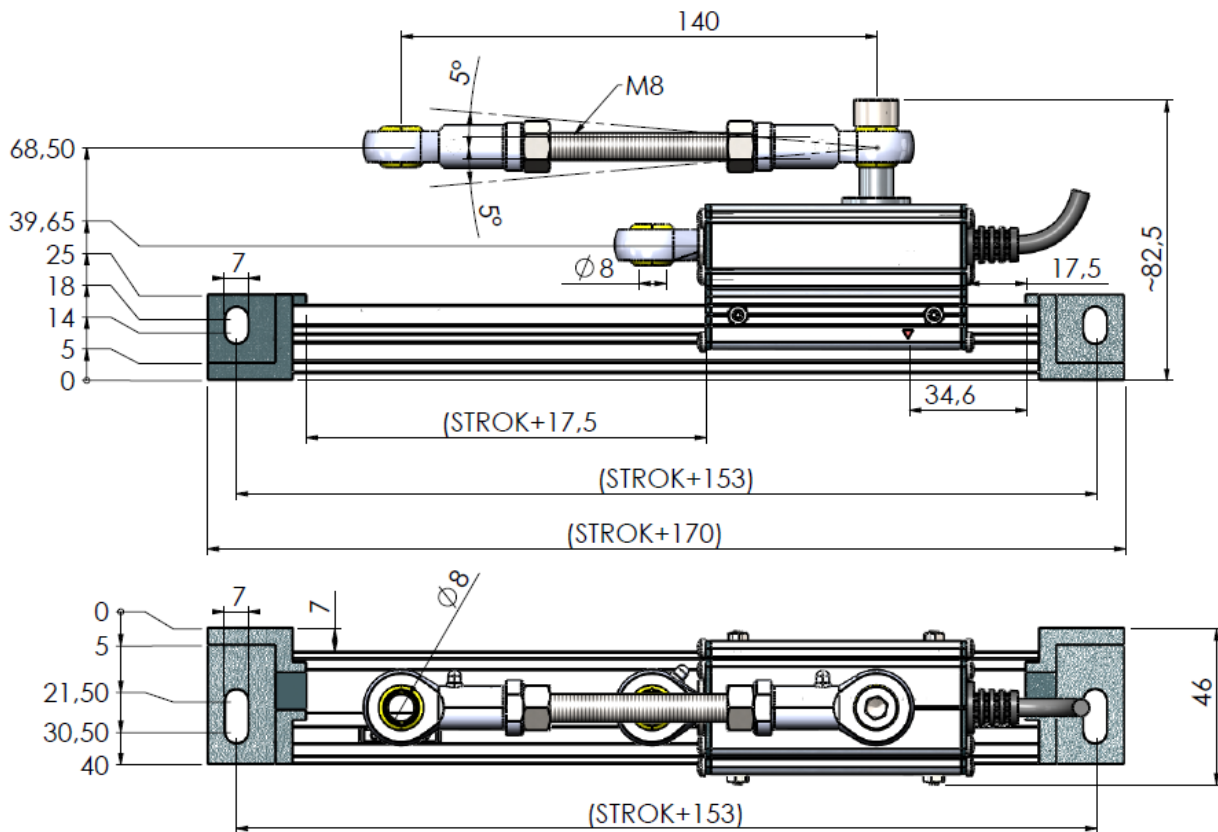


- Magnetic non-contact measurement
- Different measuring lengths between 50 ...2000 mm
- Adjustable Z reference points
- 5µm, 10µm, 25µm, 50µm, 62.5µm, 100µm resolution options
- Incremental encoder output: A, B, Z, /A, /B, /Z
- Status LEDs
- Versatile mounting possibilities
- Shock and vibrations resistance
- Resistant to dust, oil and moisture
- Robust aluminum body
- IP67 protection
- Compatible with Delem, Cybelec and ESA

MECHANICAL AND ENVIRONMENTAL DATA

| | |
|----------------------------------|------------------------------------------------------------------------|
| Measuring Length (stroke) | Different options between 50...2000mm (See. page 2: Measuring lengths) |
| Maximum Speed | 3 m/s |
| Protection | IP67 |
| Mechanical Fixing | End caps on the both side |
| Operating Temperature | -25°C...+85°C |
| Storage Temperature | -30°C...+90°C |
| Material | Sensor: Anodized aluminum and delrin |
| | Profile: Anodized aluminum |

DIMENSIONS (mm)



Standard Measuring Lengths (Stroke) (mm)

| | | | | | | | | | |
|-----|-----|-----|-----|-----|------|------|------|------|------|
| 50 | 100 | 150 | 170 | 200 | 220 | 250 | 270 | 300 | 320 |
| 350 | 370 | 400 | 420 | 450 | 470 | 500 | 520 | 570 | 620 |
| 670 | 700 | 750 | 800 | 900 | 1000 | 1250 | 1500 | 1800 | 2000 |

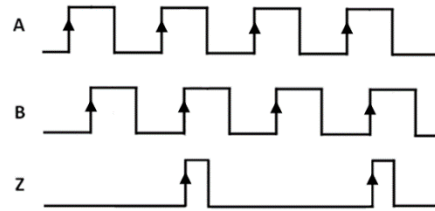
*Optional other lengths

ELECTRICAL DATA

| | | | | | |
|----------------------------------|------------------------------------------------------------------------|---------------------|---------------------|---------------------|--------------------|
| Measuring Type | Magnetic, non-contact | | | | |
| Measuring Length (stroke) | Different options between 50...2000mm (See. page 2: Measuring lengths) | | | | |
| Resolution | 5µm, 10µm, 25µm, 50µm, 62.5µm, 100µm | | | | |
| Accuracy | ±35 µm/m | | | | |
| Repeatability | ±1 Pulse | | | | |
| Magnetic Tape | B2, B5 | | | | |
| Supply and Output Type | | PP | TTL | HTL | HPL |
| | Supply | 10...30VDC | 5VDC | 10...30VDC | 5...30VDC |
| | Output | 10...30VDC Pushpull | 5VDC TTL Linedriver | 5VDC TTL Linedriver | 5...30VDC Pushpull |
| Output Signals | A, /A, B, /B, Z, /Z | | | | |
| Current Consumption | 40 mA /channel max. | | | | |
| Electrical Connection | D-Sub9 pin connector, 5 or 8 x 0,14 mm ² shielded cable | | | | |

LED FUNCTION

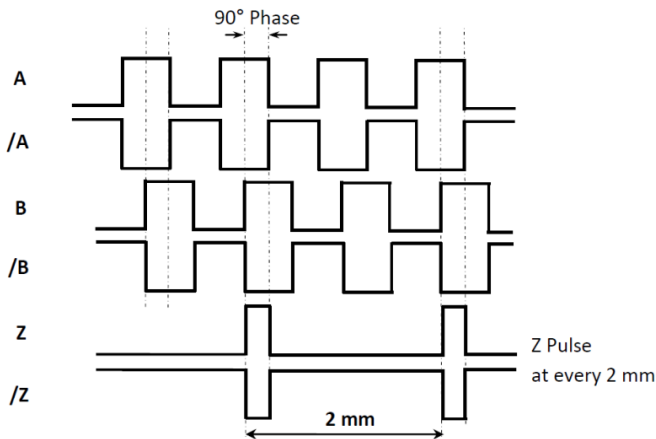
| Led Color | Description |
|-----------|--------------------------------------------------|
| Off | Sensor is not working – No supply voltage |
| Yellow | It is active at the rising edges of the A signal |
| Blue | It is active at the rising edges of the B signal |
| Red | It is active at the rising edges of the Z signal |



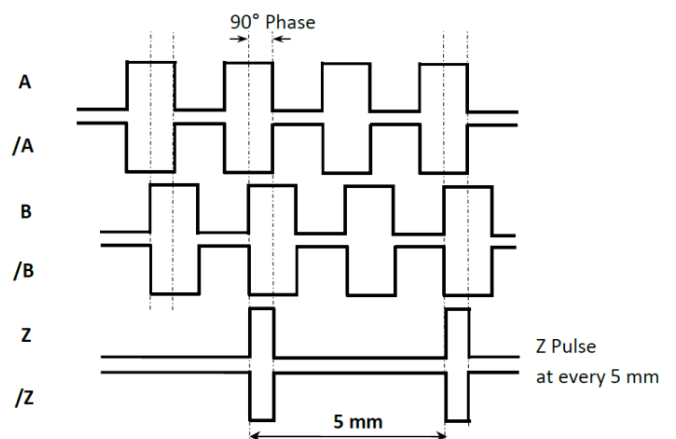
ELECTRICAL CONNECTIONS

| SIGNAL | CABLE COLOR | D-SUB9 PIN / CONNECTOR PIN NO | |
|--------|-------------|-------------------------------|--|
| A | Yellow | 1 | |
| /B | White | 2 | |
| +V | Red | 3 | |
| 0V | Black | 4 | |
| /A | Blue | 5 | |
| B | Green | 6 | |
| /Z | Grey | 7 | |
| Z | Pink | 8 | |
| - | Shield | 9 | |

-B2 Tape -



-B5 Tape -



ORDER CODE

Resolution

05 : 5µm
 10 : 10µm
 25 : 25µm
 50 : 50µm
 62 : 62,5µm
 100 : 100µm

Signal Output Type

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

Standard: Z reference signal at every 5 mm for B5 Tape or every 2 mm for B2 tape

Cable Type

C : Pure Cable
 S : Shielded Spiral

Model

MLC-520 - **XX** - **XX** - **XXX** - **X** - **XXX** - **X** - **XXX**

Magnetic Tape

B2
 B5

Supply and Output

PP : 10...30VDC Supply
 : 10...30VDC Output
TTL : 5 VDC Supply
 : 5 VDC TTLRS422 Line Driver Output
HTL : 10...30VDC Supply
 : 5 VDC TTLRS422 Line Driver Output
HPL : 5...30VDC Supply
 : 5...30VDC Push-Pull Output

Cable Length

3M : 3 meters
3.5M : 3,5 meters
4M : 4 meters
5M : 5 meters
6M : 6 meters
7M : 7 meters
8M : 8 meters
9M : 9 meters
10M : 10 meters
15M : 15 meters
 * Please ask for other options

Measuring Lengths (Stroke)

Different options from 50 mm to 2000 mm
 (See. pg2: Measuring lengths)