

wylerCLINO Frame 60° 160 mm

Features

Alignment and measurement of horizontal and vertical machine parts

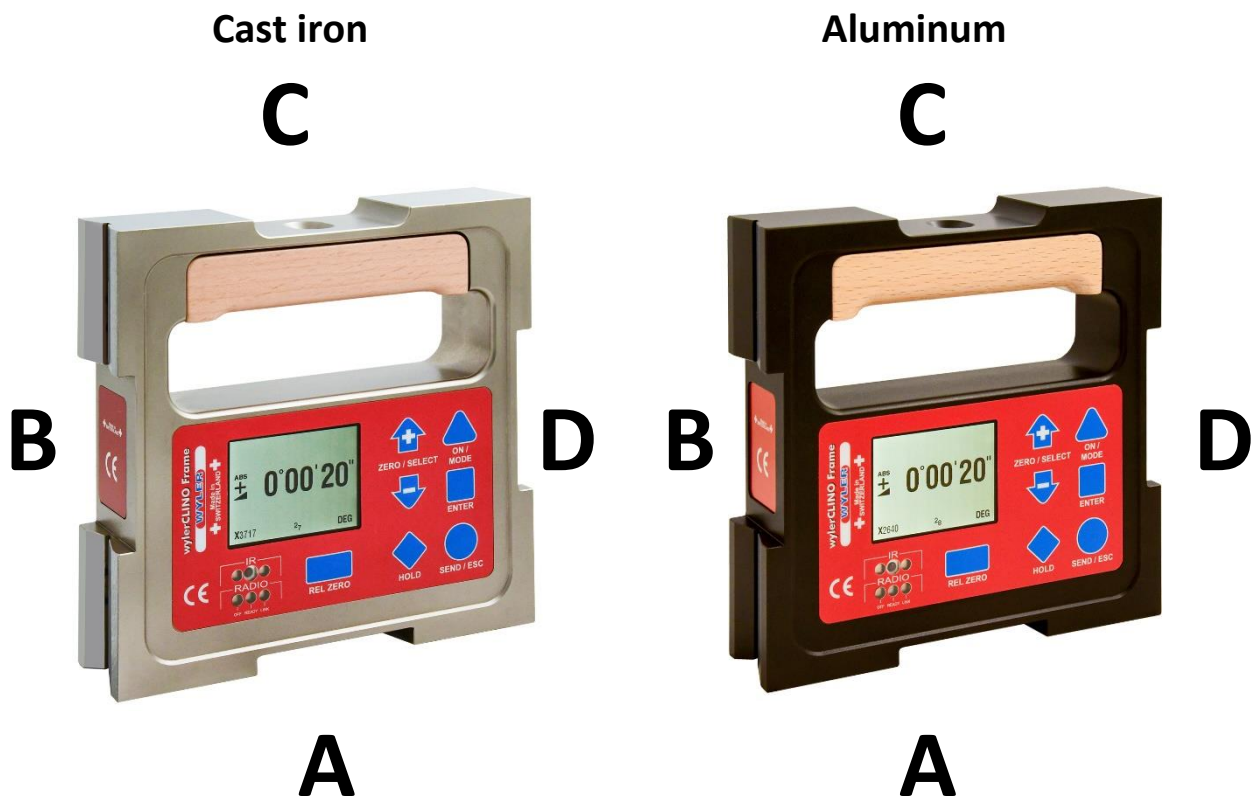
The wylerCLINO Frame 60° can be used in the way as all the measuring instruments from the BlueSYSTEM product range.

Squareness-measurement

The wylerCLINO Frame 60° offers a solid housing, which improves the stability of vertical measurements.

Comparison of vertical guideways facing opposite to each other

The comparison of a left and a right vertical guideway is possible with the wylerCLINO Frame 60°



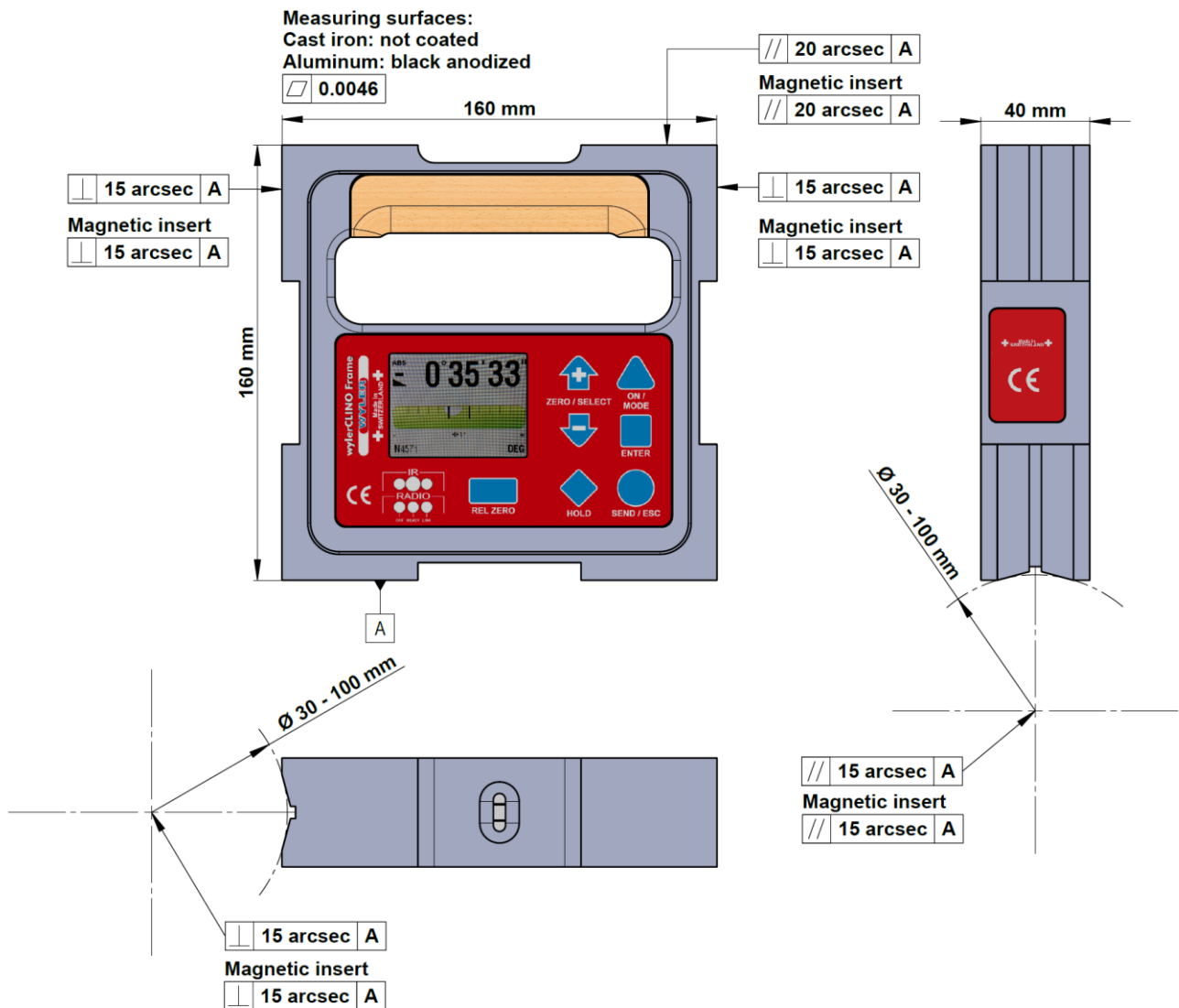
Definition of naming the 4 bases in the further context:

Starting with A at the main reference, the horizontal bottom base.
The other bases are named B, C and D in clockwise direction.

Measuring faces: xF → flat
xP → prismatic
→e.g. AF → horizontal flat measuring face

| | | |
|---|---------------------------------------|---------------|
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Dimensions:



Specifications and applicable standards

| Housing | Standard | Option |
|------------------------------|---|------------------|
| Material | Cast iron - nickel plated Aluminum - black anodized | |
| Dimension L x W x H | 160 x 40 x 160 mm | |
| Base A | Prismatic - grinded | Magnetic inserts |
| Base B | Prismatic - grinded | Magnetic inserts |
| Base C | Flat - grinded | Magnetic inserts |
| Base D | Flat - grinded | Magnetic inserts |
| Operating temperature | 0 ... 40°C | |
| Storage temperature | -30 ... 70°C | |
| Standards | WYLER specification | |
| Relative humidity | Max. 80 % RH up to 31 °C, decreasing linearly to 50 % RH at 40 °C | |
| Protection class | IP 50 | |
| Weight with batteries | 3.60 kg (Cast iron) / 1.62 kg (Aluminum) | |

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| Specification | |
|---|-------------------------------------|
| Sensitivity | 5 arcsec |
| Range | ± 60° |
| Limits of error within 12 months * T _A = 20°C (WYLER specification) | ≤ 15 arcsec + 0.027% M _W |
| Temperature error / °C (∅ 10 °C) (WYLER specification) | < 0.03% M _W |
| Response time | < 5 sec |

M_W = measured value

* typical value

| Unit | Decimals | Value in Display | Unit in Display |
|------------------------------------|----------|------------------|-----------------|
| mm per m | 2 | xxxx.xx | mm/m |
| Inch per 10 Inch | 4 | xx.xxxx | "/10" |
| Inch per 12 Inch | 4 | xx.xxxx | "/12" |
| milli radian | 2 | xxxx.xx | mRad |
| mm per relative base | 2 | xxx.xx | mm/REL |
| Inch per relative base | 4 | xx.xxxx | "/REL |
| artillery per mill | 2 | xxx.xx | A‰ |
| per mill | 2 | xxx.xx | ‰ |
| percent | 3 | xxx.xxx | % |
| degree | 3 | xxx.xxx° | DEG |
| degree + arc minutes | | xx°xx' | DEG |
| degree + arc minutes + arc seconds | | xx°xx'xx" | DEG |
| arc minutes + arc seconds | | xxx'xx" | DEG |
| arc seconds | | xxxxxx" | DEG |
| centesimal degree | 3 | xxx.xxx | GON |
| slope | | 1/xxxx | SLOPE |

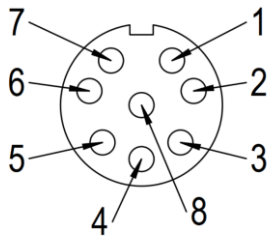
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| Electrical Characteristic | |
|---|---|
| External power supply | 24 V DC / 5 V DC |
| Current consumption | 220 mA @ 5 V DC |
| Batteries | 2x 1.5 V batteries, size C 2x 1.2 V rechargeable batteries, size C |
| Rechargeable batteries charging in device | Not supported |

| RS485 / RS232 | |
|---------------------|---|
| Value update rate | max. 3 values per second |
| Temperature reading | not supported |
| Interfaces | wylerCONNECT, WYLER universal cable |
| Connectivity | wylerEXPLORER: v2.0.5.0 or higher wylerSPEC: v2.0.5.0 or higher wylerINSERT: v2.0.4.0 or higher wylerDYNAM: v2.0.0.0 or higher wylerCHART: v2.0.0.0 or higher |
| Digital output | RS232 / RS485, asynchronous, 7 DataBits, 2 StopBits, no parity, 9600 bps |

| Bluetooth | |
|-------------------|--|
| Value update rate | max. 3 values per second |
| Interfaces | wylerCONNECT |
| Connectivity | wylerEXPLORER: v2.0.5.0 or higher wylerSPEC: v2.0.5.0 or higher wylerINSERT: v2.0.4.0 or higher wylerDYNAM: v2.0.0.0 or higher wylerCHART: v2.0.0.0 or higher APP wylerUNIVERSAL for Android ONLY |
| Range | ca. 10 meter |

Pinout Port



| Pin | Name | Description |
|-----|----------|--|
| 1 | +24 V | + 24 V DC power |
| 2 | GND | Ground |
| 3 | + 5 V | +5 V DC power |
| 4 | RTA / TX | WYLER RS485 channel A or RS232 transmit line |
| 5 | RTB | WYLER RS485 channel B |
| 6 | RX | RS232 receive line |
| 7 | RTS | RS232 request to send |
| 8 | | Not used |

Please Note:

To lock the connectors, the threaded ring is tightened until it is 'finger-tight' (approx. 50 Ncm).