



# WIRE UNITS

**2020**

**LINEAR MEASUREMENTS**

LINEAR MEASUREMENTS

# Easy installation. Reliable results

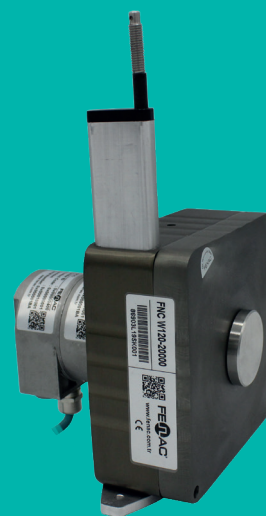
Combining Fenac brand wire units and encoders, it is very easy to reach a high resolution and absolute position information in linear distance measurement! The products are presented in three different body sizes between 0-20 meters

- Compact design or configuration flexibility
- Measuring length up to 50 mm
- Precise optical or robust magnetic sensing technology
- Absolute or incremental interfaces

**W55 Series**

## Cable transducers.

Fenac cable transducers are the most convenient, reliable and cost-efficient solution for linear positioning and travel measuring operations.

**W120 Series**

**With Fenac wire units and encoder systems, you can achieve high accuracy in any distance measurement!**



## Ultimate application versatility

Fenac wire units feature any common interface. They allow for quick integration in any control environment. They are extremely robust and cost efficient compared to other measuring principles.

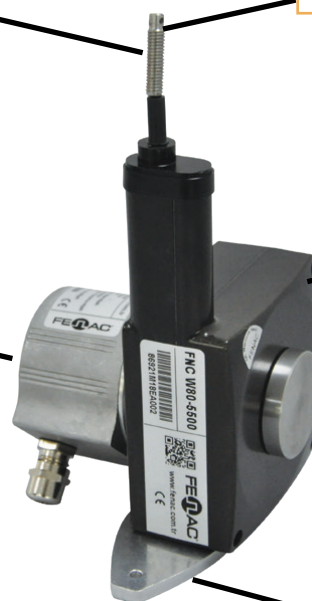
Flexible and robust cable

Additional pulleys

Perfect interaction

Aluminium housing

**W80 Series**



Direct or screw mounting option



## Conventional Products



In systems where analog data is read, start and endpoint can be determined by FNC PAA series encoders and 0-10V or 4-20 mA output can be taken. Thanks to the teaching process, 0V can be obtained at the point where the measurement will start and 10V at the point where the measurement will end.

Fenac CANopen series encoders will adapt to your CANopen communication systems.

By using Fenac incremental and absolute encoders, resolution up to 3  $\mu\text{m}$  can be achieved. In systems where absolute position information is not desired, high-resolution distance measurement can be performed using incremental encoders.



**ANALOG  
VOLTAGE**

**ANALOG  
CURRENT**

# WIRE UNITS

## LINEAR MEASUREMENTS

### LINEAR MEASUREMENTS



## W55 Series

### FEATURES

- Measurement length up to 1000 mm
- Drum circumference is 125 mm
- Linearit is  $\sim \pm 0,35 \%$



## W80 Series

### FEATURES

- Measurement length up to 5500 mm
- Drum circumference is 200 mm
- Linearit is  $\sim \pm 0,35 \%$



## W100 Series

### FEATURES

- Measurement length up to 10.000 mm
- Drum circumference is 250 mm
- Linearit is  $\sim \pm 0,35 \%$

# WIRE UNITS

## LINEAR MEASUREMENTS

### LINEAR MEASUREMENTS



## W100 Pro Series

### FEATURES

- Measurement length up to 10.00 mm
- Drum circumference is 250 mm
- Linearit is  $\sim\pm 0,35\%$



## W115 Series

### FEATURES

- Measurement length up to 13.500 mm
- Drum circumference is 300 mm
- Linearit is  $\sim\pm 0,35\%$



## W120 Series

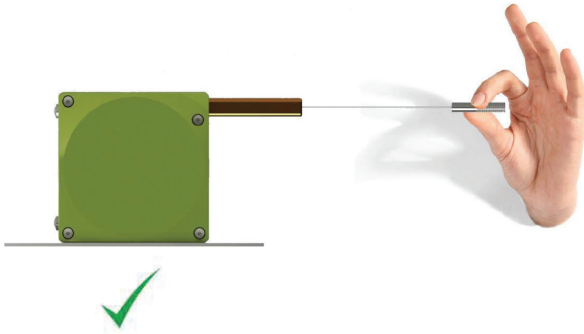
### FEATURES

- Measurement length up to 20.000 mm
- Drum circumference is 350 mm
- Linearit is  $\sim\pm 0,35\%$

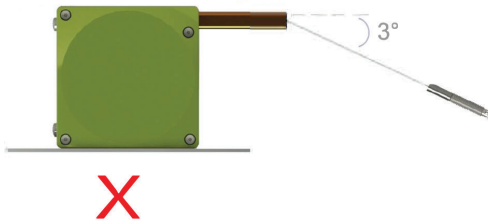
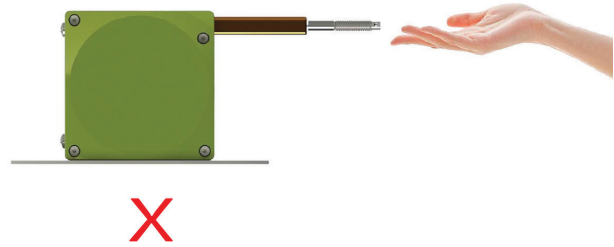
# Optimal Design

## LINEAR MEASUREMENTS

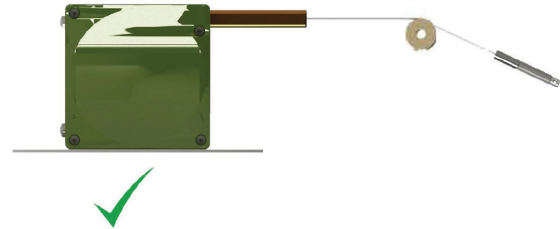
### LINEAR MEASUREMENTS



Never allow the measurement cable to retract in an uncontrolled manner. Releasing a tensioned cable will break the device. Risk of injury!



An extension angle of up to 3° is possible but not recommended. The service life may be reduced.



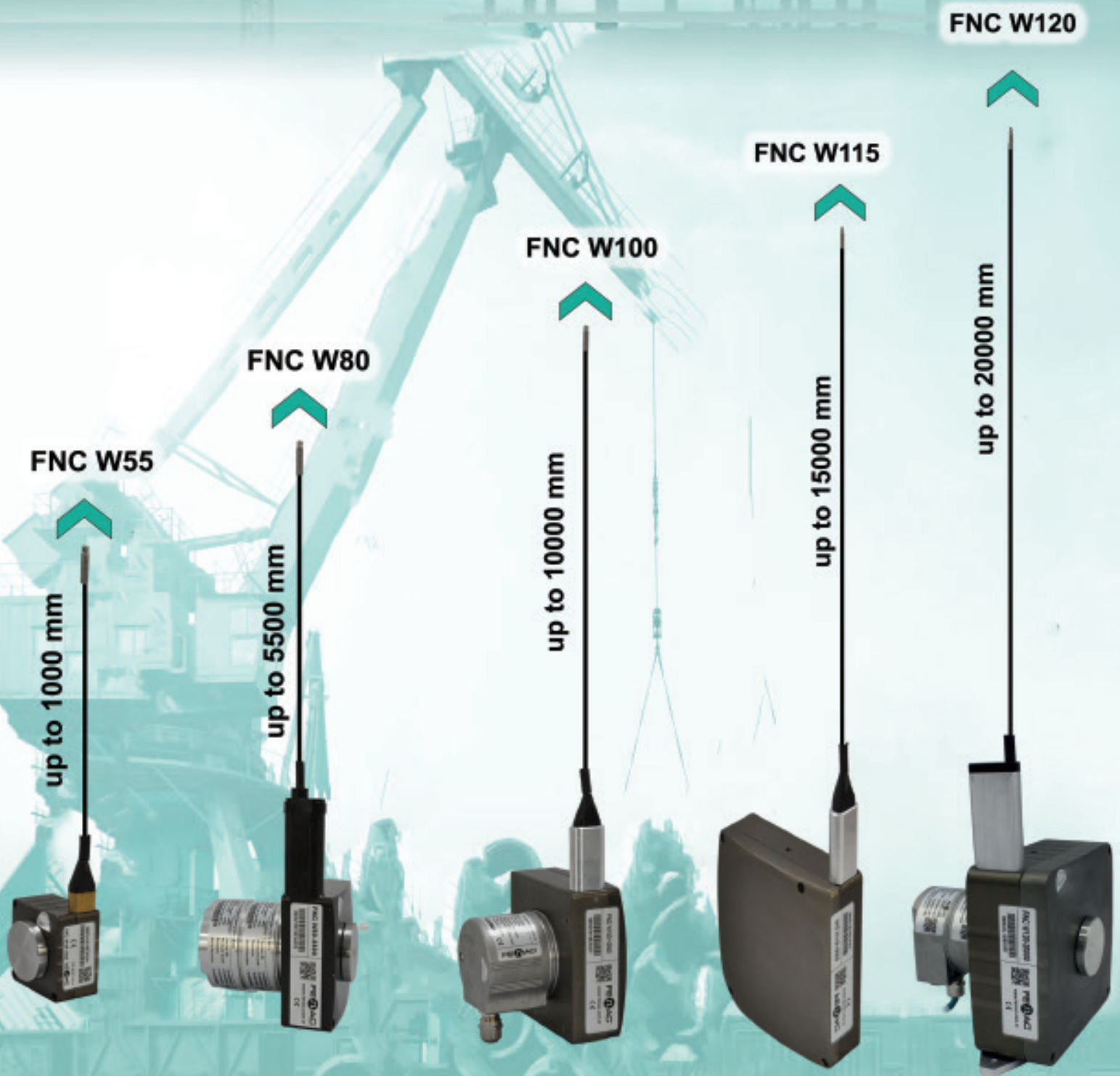
Extending the cable in a straight line is ideal. This can be achieved with a guide pulley if necessary.



If there is no risk of ice forming on the measurement cable, then the cable outlet can be positioned horizontally. However, the cable outlet should be mounted at the bottom.

If there is a risk of ice forming on the measurement cable, a guide pulley must be used in order to break up the ice. The cable outlet must always face downward. This arrangement is always preferable wherever moisture or dust may accumulate on the measurement cable.

# FENAC WIRE UNITS FAMILY





# ENCODING THE FUTURE TECHNOLOGIES



**FENAC MÜHENDİSLİK SAN. TİC. LTD. ŞTİ.**  
Ferhatpaşa Mah. 35.Sk. No:20 Ataşehir 34888 İstanbul-Turkey  
Tel/Phone : +90 216 232 27 00 Faks/Fax : +90 216 661 10 22

[www.fenac.com.tr](http://www.fenac.com.tr)  
[info@fenac.com.tr](mailto:info@fenac.com.tr)

