

ENCODERS  
SENSORS  
MOTOR FEEDBACK

# GENERAL CATALOG | 2020

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### Incremental Shaft Encoders

- » 16 - 115 mm incremental shaft encoder
- » 4 - 45 mm shaft diameter
- » 1 - 65.536 ppr options
- » < 300 kHz frequency



### Incremental Hollow Shaft Encoders

- » 16 - 100 mm hollow shaft encoders
- » 4 - 45 mm shaft diameter
- » 1 - 65.536 ppr options
- » < 300 kHz frequency



### Programmable Encoders

- » 50 - 58 mm shaft encoder
- » 50 - 58 mm hollow shaft encoders
- » 4 - 14 mm shaft diameter
- » 1 - 65.536 ppr options
- » < 2 MHz frequency
- » FNC PT-PC easy programming device



### Heavy Duty Encoders

- » 58 - 115 MM shaft encoders
- » 100 mm hollow shaft encoder
- » 4 - 17 mm shaft diameter
- » 1 - 65.536 ppr options
- » Highest operating speed 10000 rpm
- » Terminal box, M23 connector, cable options



**FNC PT-PC**



## Absolute Encoders Standard

- » 27 - 58 mm shaft encoders
- » 36 - 80 mm hollow shaft encoders
- » Single or multiturn /SSI - BISS
- » Magnetic or optical sensing
- » Single turn up to 21 bit
- » Multi turn up to 32 bit
- » Encoder with electronic reset
- » SSI, BISS, Profinet, Canopen, Ethercat options



## Motor Feedback Encoders

- » 8 - 56 mm diameter body
- » 12 - 19 bit SSI/BISS accurate position information
- » Differential RS 422 incremental output signals
- » Non - contact magnetic technology
- » Both A, B, Z incremental U, V, W commutation signals
- » Protection up to IP67



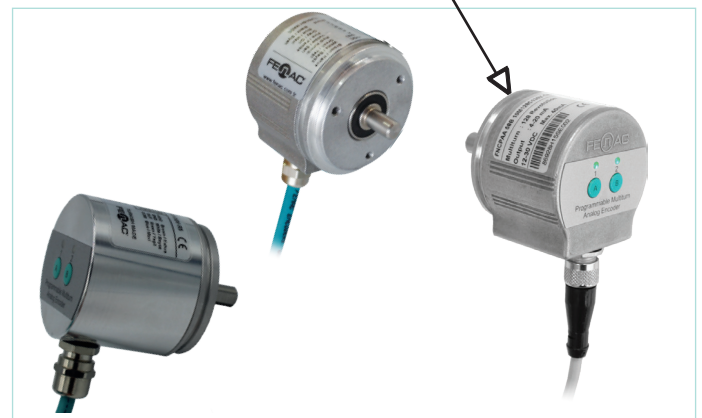
## Absolute Encoders Bus Cover

- » 58 mm shaft encoders
- » 58 mm hollow shaft encoders
- » 6 - 10 mm shaft diameter
- » Single or multiturn / bus cover
- » Magnetic sensing
- » Multi turn up to 32 bit
- » Modular fieldbus interfaces
- » Canopen, Ethercat, Profinet options



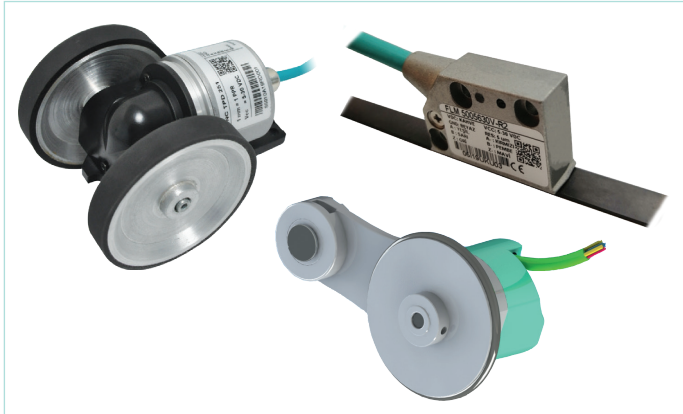
## Absolute Analog Encoders

- » 50 - 58 mm shaft encoder
- » 50 - 58 mm hollow shaft encoders
- » 4 - 14 mm shaft diameter
- » 0 - 10 voltage / 4 - 20 mA current output
- » Programmeble measuring range
- » Protection up to IP67



### Linear Encoders & Solutions

- » Suitable for measuring the length and speed of the moving target by selecting wheel type
- » Robust mechanical and electrical construction
- » Protection up to IP65



### Draw Wire Sensors

- » Measurement length 0 - 20.000 mm
- » 55 - 120 mm aluminium housing
- » Very compact design
- » Protection to IP54
- » Wire actuated encoder for all rotary encoders with 58 mm ser vo flange and different signal outputs
- » Stainless steel wire
- » Drum circumference is 125 to 350 mm
- » Linearity is  $\sim \pm 0,35 \%$



### Bearingless Encoders

- » 30 - 135 mm hollow shaft encoders
- » 15 - 90 mm shaft diameter
- » Off-axis incremental, absolute & commutation rotary encoder
- » Up to 65.536 ppr for incremental rotary encoder
- » Up to 18 bit for absolute rotary encoder
- » Up to 16 pole pairs
- » <300 kHz frequency
- » Magnetic system



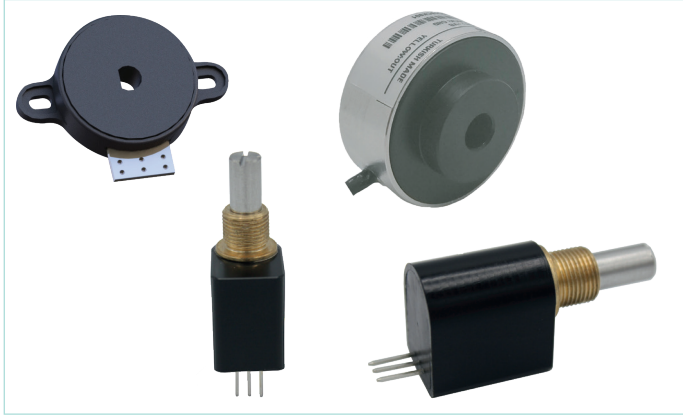
### Textile Solutions

- » 58 mm shaft encoders
- » 58 mm end hollow shaft diameter
- » Up to 10 bit parallel output
- » Up to 65.536 ppr incremental output
- » Special desings for textile machines
- » Protection up to IP67



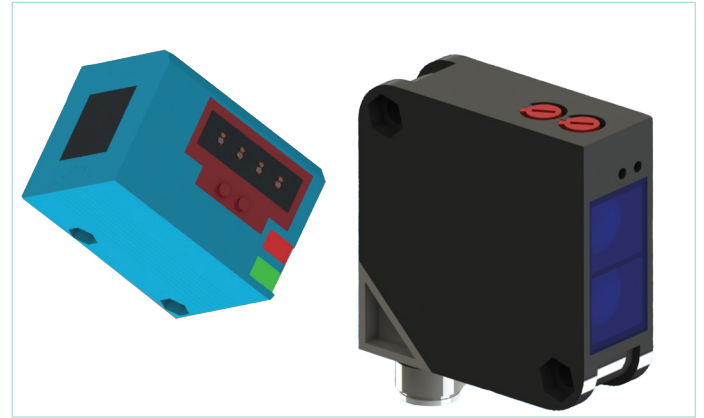
## Potentiometers

- » Different housing diameters
- » Better than 0,1° resolution
- » Linearity up to  $\pm 0,25\%$
- » Long lifetime
- » Robust



## Sensors

- » Reliable optical distance measurement with long range up to 10 meters
- » Different infrared and laser distance sensors
- » High accuracy (%1)
- » Scalable measuring range and window function
- » Robust operation range



## Door Detectors

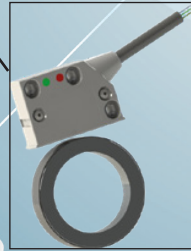
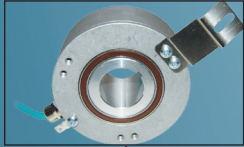
- » EN 81-20 compatible
- » 5 cm minimum object sensing
- » Extremely dense protective field
- » Wide operation range
- » Robust operation range
- » Simple mounting
- » Virtually no alignment necessary
- » Wide power supply range



## Accessories

- » Couplings
- » Encoder wheels
- » Flanges





# ENCODING THE FUTURE TECHNOLOGIES

**FENAC**  
Automation Control

**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)

