

**Torque Transducer  
Type DRFS-I-w  
mit hexagonal square  
and angle detection**

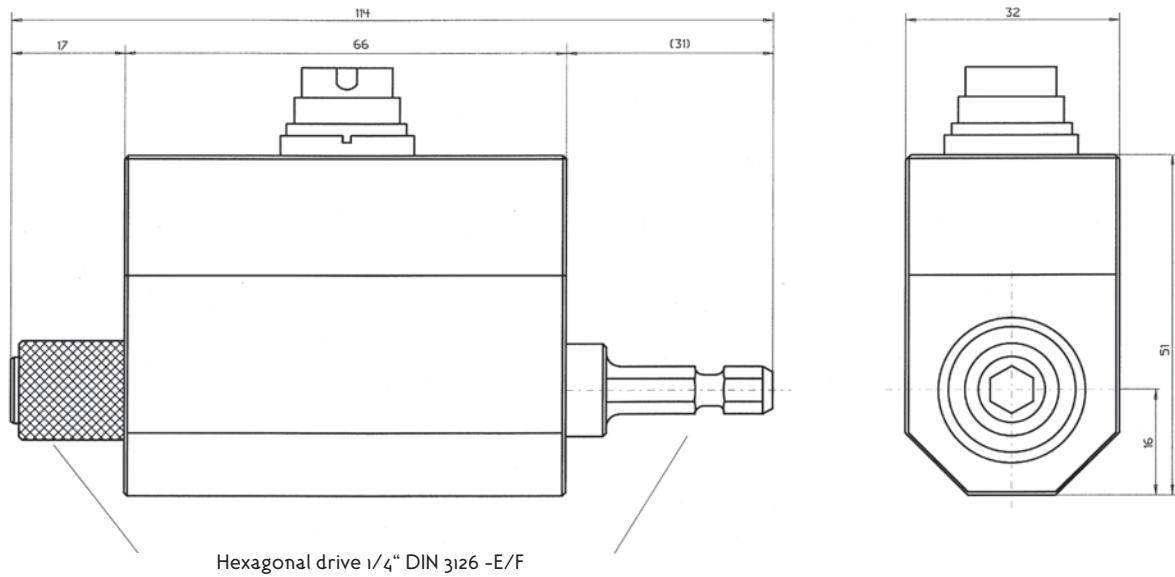


**for automobile manufacturing, test bench and assembly applications,  
suitable for pulsed tools**

**It distinguishes with the following special features:**

- No service needed because of contactless data acquisition
- Frequency modulation and strain gage principle cause high accuracy
- Ordinary power supply
- High interference rejection because of amplified active signal

## Mechanical dimensions:



## Technical Specifications:

Measurement Range:	0,5; 1; 2; 5; 10; 20Nm
Supply Voltage:	12V DC $\pm 10\%$
Current Consumption:	approx. 200mA
Rise Time 10-90%:	1ms (1kHz)
Voltage Output:	0- $\pm 5V$
Internal Resistance:	100 $\Omega$
Ripple:	< 100mVss
Nonlinearity:	< 0,15%
Hysteresis:	< 0,1%
Operating Temperature:	0-60°C
Compensated Temperature Range:	5-45°C
Temperature fault	
Zero Point:	0,02%/K
Sensitivity:	0,01%/K
Mechanical Overload:	0,5Nm -5Nm 100%; 10Nm 80%; 20Nm 30%
rev. max.:	10 000 rpm
Weight:	approx. 280g
Connection:	12 Pin Fitted Connector

## Option:

Angle	(w)
rev. max:	3 000 rpm
Output:	open collector
internal pull up:	10k $\Omega$ (5V level)
external pull up:	24Vmax
I max:	20 mA
Pulses/rev.:	360
Resolution:	1°

## Direction detection:

90° phase shift  
Ch. A preceding at right spin of propulsion side

## Ordering Example: DRFS-I-2-w

Torque-transducer (standard square) range 2Nm with angle detection

available Accessories: Measuring cable, supply and display unit