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# Torque sensor

Torque sensor is a kind of precision measuring instrument for measuring various torque, rotational speed and mechanical power. It is mainly used in the detection of motor, engine and other rotating power equipment Locomotive, automobile, aircraft, mining machine Lj in the torque and power detection and so on . Whether it is engineering manufacturing or transpoDžation industLj or scientillc research institutes and other places have torque sensors.

## Application

# KDEV-N-11A

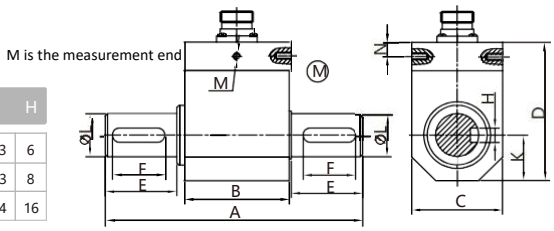


## Product characteristics

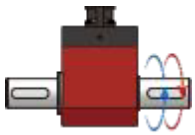
- Large range torque measurement, can be measured positive and negative torque values, imported chips and components, widely used in various torque measurement and control, speed up to 1800 rpm.

- **Mounting dimensions**

| Measuring range | A | ΦL | B | C | D | E | F | K | N | M | H |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0-100 NM | 108 | 18 | 44 | 38 | 58 | 30 | 22 | 19 | 6 | 3-M3 | 6 |
| 200-500NM | 143 | 28 | 56 | 53 | 73.5 | 40 | 30 | 27 | 6 | 3-M3 | 8 |
| 800-1000NM | 221 | 50 | 97 | 90 | 125 | 60 | 55 | 45 | 33 | 4-M4 | 16 |




- **Force mode**



## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 0-10/20/30/50/100/200/500/1000 NM | | |
| Sensitivity | 1.5±10%mV/V | Sensitivity temperature effect | ±0.03%F.S/10℃ |
| Zero output | ±2%F.S | Zero temperature effect | ±0.03%F.S/10℃ |
| Non-linear | 0.2% F.S. | Temperature compensation range | -10~60℃ |
| Lag behind | ≤±0.05%F.S. | Operating temperature range | -20~80℃ |
| Repeatability | ≤±0.05%F.S. | Excitation voltage | 10~ 12VDC |
| Creep | ±0.03%F.S/30min | SAFE overload range | 150%F.S |
| Input impedance | 750±10Ω | Limit Overload Range | 200%F.S |
| Output impedance | 700±5Ω | Cable specifications | Φ5mm×3m |
| Insulation Resistance | ≥5000MΩ/100V DC | Electrical connection | Red /E + , black /E-, green /S + , white /S- |

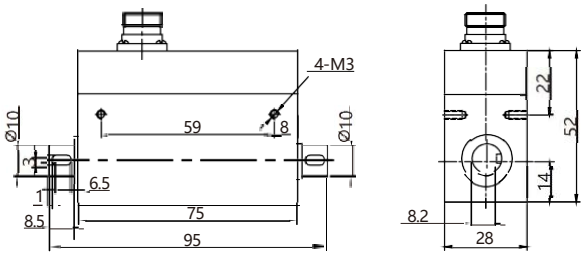
# KDEV-N-11B



## Product characteristics

- The Resistance Strain Gage is an integrated product composed of sensitive element and integrated circuit, with high precision and stable and reliable perf ormance. Output positive and negative torque signals, the two ends of the key connection, speed not more than 1800 rpm.

- **Mounting dimensions**




- **Force mode**



## 技术参数 / Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 0-0.1/0.2/0.3/0.5/1/2/3/5 NM | | |
| Output sensitivity | 1.0~1.5mV/V | Sensitivity temperature effect | ±0.1%F.S/10℃ |
| Zero output | ±1%F.S | Zero temperature effect | ±0.1%F.S/10℃ |
| Non-linear | 0.2% F.S. | Temperature compensation range | -10~60℃ |
| Lag behind | 0.2%F.S. | Operating temperature range | -30~60℃ |
| Repeatability | 0.1%F.S. | Excitation voltage | 12VDC |
| Creep | ±0.03%F.S/30min | SAFE overload range | 120%F.S |
| Input impedance | 350±10Ω | Limit Overload Range | 150%F.S |
| Output impedance | 350±10Ω | Cable specifications | Φ5mm×3m |
| Insulation Resistance | ≥2000MΩ/100V DC | Electrical connection | Red /E + , black /E-, green /S + , white /S- |

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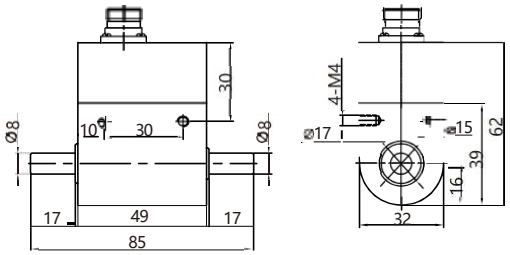
# KDEV-N-1A



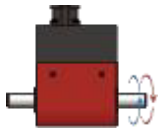
## Product characteristics

- The Resistance Strain Gage is an integrated product composed of sensitive element and integrated circuit, with high precision and stable and reliable
- performance. No collector ring and other wear parts, can be high-speed long-time operation, output positive and negative torque signal. Up to 1800 rpm.

- **Mounting dimensions**




- **Force mode**



## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 0-0.1/0.2/0.3/0.5/1/2/3/5 NM | | |
| Sensitivity | 1.5±10%mV/V | Sensitivity temperature effect | ±0.03%F.S/10℃ |
| Zero output | ±2%F.S | Zero temperature effect | ±0.03%F.S/10℃ |
| Non-linear | 0.2% F.S. | Temperature compensation range | -10~60℃ |
| Lag behind | ≤±0.05%F.S. | Operating temperature range | -20~65℃ |
| Repeatability | ≤±0.05%F.S. | Excitation voltage | 10~ 12VDC |
| Creep | ±0.03%F.S/30min | SAFE overload range | 150%F.S |
| Input impedance | 750±10Ω | Limit Overload Range | 200%F.S |
| Output impedance | 700±5Ω | Cable specifications | Φ5mm×3m |
| Insulation Resistance | ≥5000MΩ/100V DC | Electrical connection | Red /E + , black /E-, green /S + , white /S- |

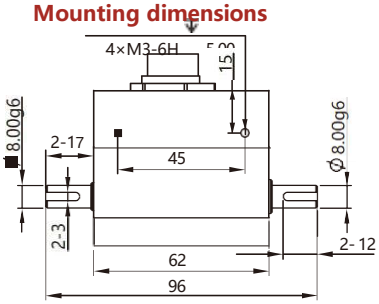


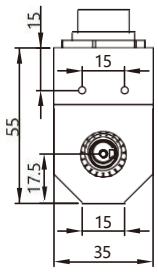
# KDEV-N-12A

## Product characteristics

- Electromagnetic coupling coil to achieve power and measurement signal wireless transmission, 10-pin aviation plug, set torque signal frequency signal, analog signal, speed signal, RS485 digital signal output. Imported bearings,
- longer life, higher limit speed, higher load resistance, less friction. One- piece shell, higher hardness, less deformation, more stable performance, longer life.

- **Mounting dimensions**

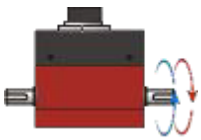






- **Force mode**



## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 0.1/0.2/0.5/1/2/5 NM | | |
| Speed Range | ≤8000 rpm | OperatingTemperature | -20~80℃ |
| Torque signal | RS485/±10V/±5V/0-10V/0-5V/5-15KHz | Temp.e ect on zero | 0.15%F.S./10℃ |
| Speed signal | RS485/60 pulse signal | Temp.e ect on output | 0.15%F.S./10℃ |
| Precision | ±0.2%F.S | Power supply | 24VDC±15% |
| Overloadcapacity | 150% | Material Quality | Shell: aluminum; Shaft core: 17-4 |
| Frequency response | 1ms | Cable size | Φ6×3000mm |

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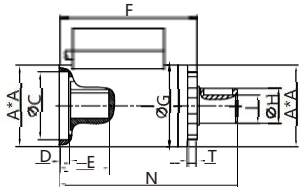
# KDEV-N-1E

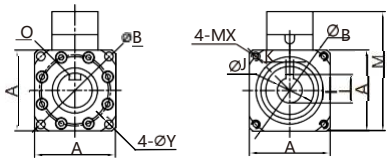


## Product characteristics

- The Resistance Strain Gage is an integrated product composed of sensitive element and integrated circuit, with high precision and stable and reliable perf
- ormance. Output positive and negative torque signals, the two ends of the key connection, speed up to 1800 rpm.

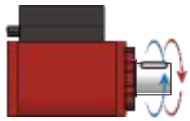
## Mounting dimensions




| NM | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | T | X | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0-50 | 42 | 50 | 35 | 5 | 26 | 73 | 42 | 18 | 14.5 | 13 | 4 | 14.8 | 63 | 93 | 40×40 | 5 | M4 | 4.5 |
| 100 | 62 | 70 | 50 | 7 | 39 | 91 | 62 | 18 | 14.5 | 16 | 6 | 18.3 | 77 | 122 | 60×60 | 7 | M7 | 5.5 |

## Force mode



## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 0-5/10/20/30/50/100 NM | | |
| Sensitivity | 1.5mV/V±10%F.S. | Sensitivity temperature effect | ±0.03%F.S/10℃ |
| Zero output | ±2%F.S | Zero temperature effect | ±0.03%F.S/10℃ |
| Non-linear | ±0.1, ±0.2%F.S. | Temperature compensation range | -10~60℃ |
| Lag behind | ≤±0.05%F.S. | Operating temperature range | -20~75℃ |
| Repeatability | ≤±0.05%F.S. | Excitation voltage | 5-10VDC |
| Creep | ±0.03%F.S/30min | SAFE overload range | 150%F.S |
| Input impedance | 350±20Ω | Limit Overload Range | 200%F.S |
| Output impedance | 350±10Ω | Cable specifications | Φ5mm×3m |
| Insulation Resistance | ≥5000MΩ/100V DC | Electrical connection | Red /E + , black /E-, green /S + , white /S- |

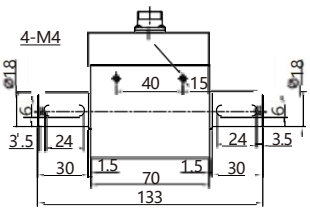
# KDEV-N-4A

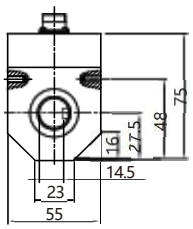


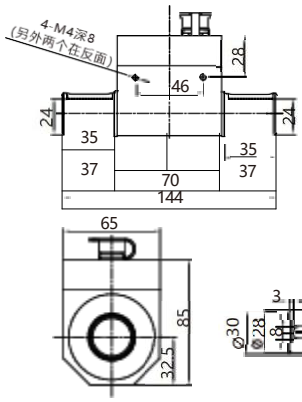
## Product characteristics

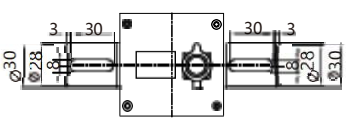
- Non-contact dynamic torque sensor, rotating speed up to 8000 rpm, measuring speed and power; ultra-low wear, often used for long-term operation of the
- measurement.

## Mounting dimensions

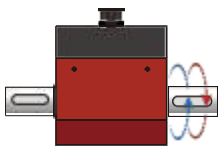



## Force mode



## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 0~5/10/20/50/100NM | Annual stability | 0.25%/ |
| Power supply | ±24VDC±15% | Insulation resistance | ≥2000MΩ (100VDC) |
| Torque signal | ±5VDC;±10V;4-20mA | Ambient temperature | -10~50℃ |
| Speed range | ≤8000 rpm | Relative temperature | 0~90% RH |
| Speed signal | Random band | Overload capacity | 200% |
| Precision | ±0.2%F.S. | Frequency response | 1ms |
| Cable specifications | Φ5mm×3m | | |

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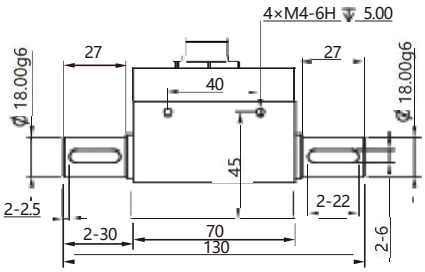
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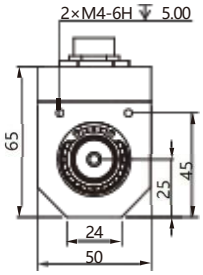


## Product characteristics

- Electromagnetic coupling coil to achieve power and measurement signal wireless transmission, 10-pin aviation plug, set torque signal frequency signal, analog signal, speed signal, RS485 digital signal output. Imported bearings, longer life, higher limit
- speed, higher load resistance, less friction. One- piece forming shell, higher hardness, small size, high precision performance, reliable stability.

## • Mounting dimensions

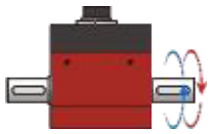






## • Force mode



## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 5/10/20/50/100 NM | | |
| Speed Range | ≤8000rev/ min | Operating Temperature | -20~80℃ |
| Torque signal | RS485/±10V/±5V/0-10V/0-5V/5-15KHz | Temp.e ect on zero | 0.15%F.S./10℃ |
| Speed signal | RS485/60 **pulse signal** | Temp.e ect on output | 0.15%F.S./10℃ |
| Precision | ±0.2%F.S | Power supply | 24VDC±15% |
| Overload capacity | 150% | Material Quality | Shell: Aluminum; Axis core:17-4 |
| Frequency response | 1ms | Cable size | Φ6×3000mm |

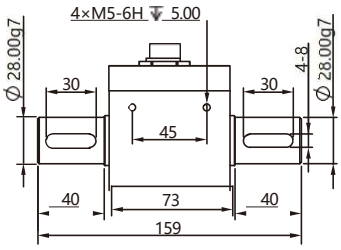
# KDEV-N-41B

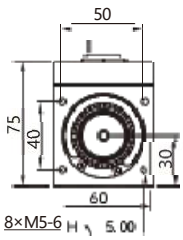


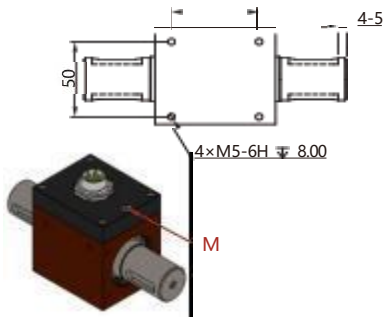
## Product characteristics

- Electromagnetic coupling coil to achieve power and measurement signal wireless transmission, 10-pin aviation plug, set torque signal frequency signal, analog signal, speed signal, RS485 digital signal output. Imported bearings, longer life, higher limit
- speed, higher load resistance, less friction. One- piece shell, higher hardness, less deformation, more stable performance, longer life.

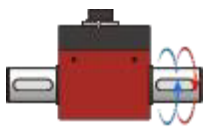
## • Mounting dimensions




## • Force mode



## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 200/500 NM | | |
| Speed Range | ≤8000rev/ min | Operating Temperature | -20~80℃ |
| Torque signal | RS485/±10V/±5V/0-10V/0-5V/5-15KHz | Temp.e ect on zero | 0.15%F.S./10℃ |
| Speed signal | RS485/60**pulse signal** | Temp.e ect on output | 0.15%F.S./10℃ |
| Precision | ±0.2%F.S | Power supply | 24VDC±15% |
| Overloadcapacity | 150% | Material Quality | Shell: Aluminum; Axis core:17-4 |
| Frequency response | 1ms | Cable size | Φ6×3000mm |

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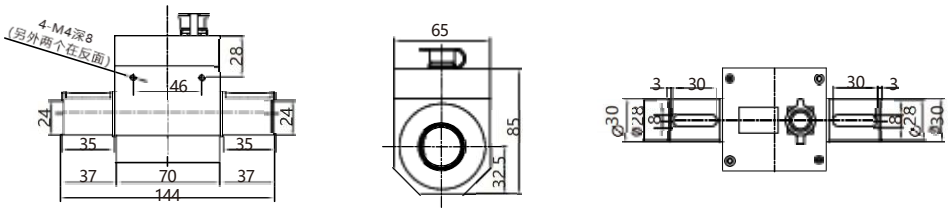
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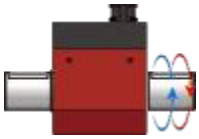
## Product characteristics

- Large range non-contact dynamic torque sensor, ultra-low wear, high speed, can provide
- speed signals and power signals.

## Mounting dimensions




## Force mode



## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 200/300/500Nm | Annual stability | 0.25%/**year** |
| Power supply | ±24VDC±15% | Insulation resistance | ≥2000MΩ (100VDC) |
| Torque signal | ±5VDC;±10V;4-20mA | Ambient temperature | -10~50℃ |
| Speed range | ≤8000rev/ min | Relative temperature | 0~90%RH |
| Speed signal | Random band | Overload capacity | 200% |
| Precision | ±0.2%F.S. | Frequency response | 1ms |
| Cable specifications | Φ5mm×3m | | |

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KaiDC



Mounting dimensions

# KDEV-N-43A/KDEV-N-43B

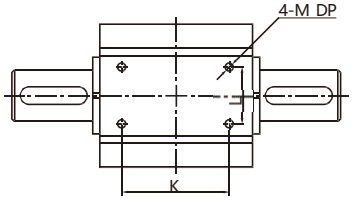
## Product characteristics

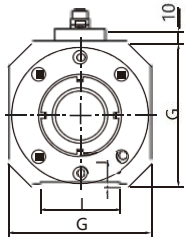
- Large range non-contact dynamic torque sensor, with a variety of range options, with body display, display content . Including: torque, speed, power; often used in a variety of larger torque measurement.

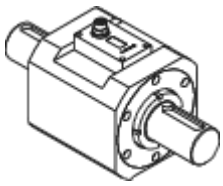
- Force mode

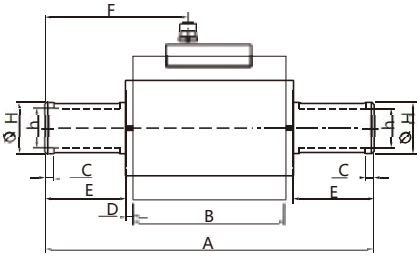


## KDEV-N-43A



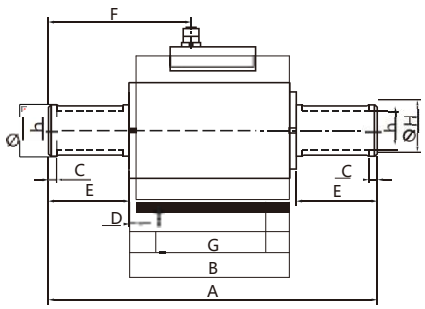



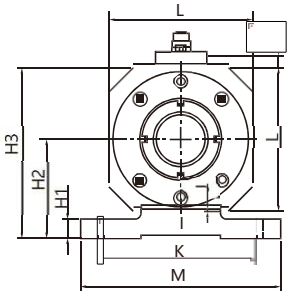






| NM | A | B | C | D | E | F | G | ΦH | h | I | J | K | L | M | key (b×h×l×n) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5-100 | 185 | 111 | 3.5 | 7 | 30 | 73.5 | 70 | 18 | 14.5 | 36 | 1.5 | 80 | 22 | 4-M5 DP9 | 6×6×22×1 |
| 200-500 | 198 | 114 | 3 | 7 | 35 | 80 | 85 | 28 | 24 | 50 | 1.5 | 84 | 36 | 4-M5 DP11 | 8×7×30×1 |
| 1K-2K | 288 | 134 | 5 | 7 | 70 | 125 | 125 | 45 | 34 | 70 | 1.5 | 94 | 50 | 4-M8 DP15 | 14×9×60×2 |
| 3K-5K | 355 | 141 | 4 | 7 | 100 | 158.5 | 160 | 75 | 60 | 100 | 2.5 | 100 | 80 | 4-M10 DP18 | 20×12×93×2 |
| Remarks: KDEV-J431 if speed is over 10000RPM, no key. | | | | | | | | | | | | | | | |

## KDEV-N-43B




| 量程NM | A | B | C | D | E | F | G | ΦH | h | J | K | L | M | H1 | H2 | H3 | key (b×h×l×n) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5-100 | 185 | 111 | 3.5 | 7 | 30 | 73.5 | 80 | 18 | 14.5 | 6.5 | 83 | 70 | 100 | 10 | 53.5 | 88.5 | 6×6×22×1 |
| 200-500 | 198 | 114 | 3 | 7 | 35 | 80 | 84 | 28 | 24 | 6.5 | 97 | 85 | 114 | 10 | 61 | 103.5 | 8×7×30×1 |
| 1K-2K | 288 | 134 | 5 | 7 | 70 | 125 | 94 | 45 | 34 | 9 | 142 | 125 | 175 | 18 | 89 | 151.5 | 14×9×60×2 |
| 3K-5K | 355 | 141 | 4 | 7 | 100 | 158.5 | 100 | 75 | 60 | 11 | 181 | 160 | 220 | 20 | 110.5 | 190.5 | 20×12×93×2 |
| Remarks: KDEV-J432 if speed is over 10000RPM, no key. | | | | | | | | | | | | | | | | | |

## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 5-5000NM | Compensation Temperature range | -10~+60℃ |
| Torque output | 10±5KHZ, 4-20mA,0±5/10VDC,0-5/10VDC, RS485 | Operating TEMPERATURE | 20~80℃ |
| Precision | ±0.1, 0.2% FS | Electrical connection | 6-pin or 8-pin |
| Power supply | 12-30VDC | Safety overload | 200% RO |
| Zero temperature effect | ±0.02%RO/℃ | Shaft material | **stainless steel** |
| Range temperature effect | ±0.02%RO/℃ | Shell material | **aluminium** |

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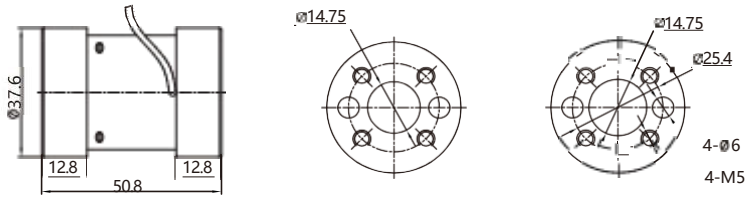


# KDEV-N-50

## Product characteristics

- Small size, easy to install flange structure, stainless steel or aluminum alloy structure, high accuracy, good stability, static torque testing equipment, torque wrench and other torque testing equipment.
-

- **Mounting dimensions**




- **Force mode**



## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 1/2/3/5/6/10/20/30/50/100/150 NM | Sensitivity temperature effect | ±0.05%F.S/10℃ |
| Composite Error | ≤±0.1%, ≤±0.3% | Zero temperature effect | ±0.05%F.S/10℃ |
| Non-linear | 0.2% | Temperature compensation range | -10~60℃ |
| Sensitivity | 1.5±10%mV/V | Operating temperature range | -20~80℃ |
| Creep | ±0.03%F.S/30min | Excitation voltage | 5~ 12V |
| Zero output | ±2.0%F.S | SAFE overload range | 120%F.S |
| Input impedance | 410±20Ω | Limit Overload Range | 150%F.S |
| Output impedance | 350±100Ω | Cable specifications | Φ3mm×3m |
| Insulation Resistance | ≥5000MΩ/100V DC | Protection level | Ip65 |

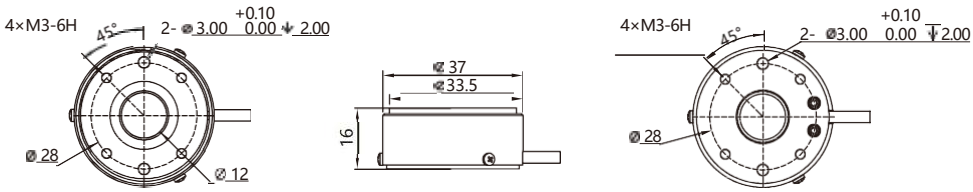


# KDEV-N-501

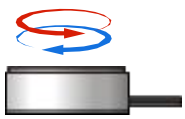
## Product characteristics

- Static torque sensor is compact and easy to install, high precision, stable and reliable performance, protection class: IP66, for static, non continuous rotation
- torque value measurement.

- **Mounting dimensions**




- **Force mode**



## 技术参数 / Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 0.2/0.5/1/2/5/10 NM | Sensitivity temperature effect | ±0.15%F.S/10℃ |
| Composite Error | ±0.1/0.3%F.S. | Zero temperature effect | ±0.15%F.S/10℃ |
| Non-linear | 0.1/0.3%F.S. | Temperature compensation range | -10~40℃ |
| Sensitivity | 1.0±10%mV/V | Operating temperature range | -20~60℃ |
| Creep | ±0.03%F.S/30min | Excitation voltage | 5~12V |
| Zero output | ±2.0%F.S | SAFE overload range | 120%F.S |
| Input impedance | 350/750±10Ω | Limit Overload Range | 150%F.S |
| Output impedance | 350/700±5Ω | Cable specifications | Φ3mm×3m |
| Insulation Resistance | ≥5000MΩ/100V DC | Material | **aluminium**/17-4 |

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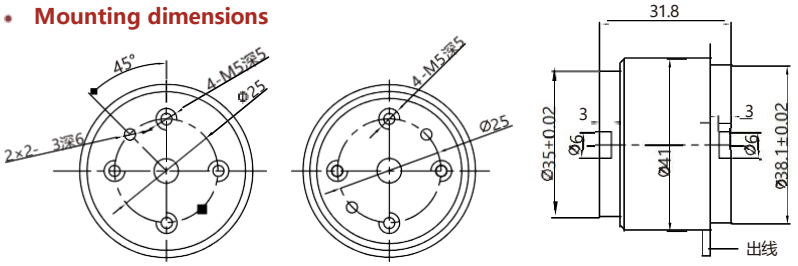


# KDEV-N-50A

## Product characteristics

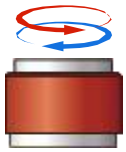
- High precision, stable performance, reliable, low range torque measurement, easy to install double Flange, using German technology and production equipment and advanced testing equipment.

## Mounting dimensions




| | |
|---|---|
| 0-5NM | aluminium |
| 10-50NM | steel |

## Force mode



## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 0-0.1/0.2/0.5/1/2/3/5/10/20/30/50 NM | Sensitivity temperature effect | ±0.03%F.S/10℃ |
| Composite Error | ≤±0.1%, ≤±0.3% | Zero temperature effect | ±0.03%F.S/10℃ |
| Non-linear | 0.2% | Temperature compensation range) | - 10~60℃ |
| Sensitivity | 1.5±10%mV/V | Operating temperature range) | -20~65℃ |
| Creep | ±0.03%F.S/30min | Excitation voltage | 5~ 12V |
| Zero output | ±2.0%F.S | SAFE overload range | 150%F.S |
| Input impedance | 350/750±10Ω | Limit Overload Range | 200%F.S |
| Output impedance | 350/700±5Ω | Cable specifications | Φ3mm×3m |
| Insulation Resistance | ≥5000MΩ/100V DC | Protection level | Ip65 |



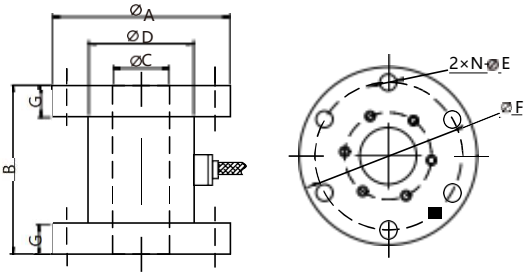
# KDEV-N-5A

## Product characteristics

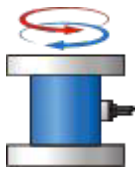
- Resistance strain as a sensitive element, integrated circuit products, high precision, stable performance, low-range torque measurement, easy to install and use, both ends are !ange connection.

## Mounting dimensions

| 量程NM | A | B | C | D | E | F | N | G |
|---|---|---|---|---|---|---|---|---|
| 5-50 | 69 | 65 | / | 41 | 6.5 | 57 | 6 | 12 |
| 100-300 | 69 | 65 | 22 | 41 | 6.5 | 57 | 6 | 12 |
| 500-1000 | 98 | 80 | 30 | 60 | 8.5 | 80 | 8 | 15 |
| 2000-5000 | 125 | 96 | 45 | 79 | 13 | 105 | 8 | 20 |




## Force mode



## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 10/20/50/100/200/300/500/1000/2000/5000 NM | Sensitivity temperature effect | ±0.05%F.S/10℃ |
| Composite Error | ≤±0.1%, ≤±0.3% | Zero temperature effect | ±0.05%F.S/10℃ |
| Non-linear | 0.2% | Temperature compensation range | - 10~60℃ |
| Sensitivity | 1.5±10%mV/V | Operating temperature range | -20~65℃ |
| Creep | ±0.03%F.S/30min | Excitation voltage | 5~ 12V |
| Zero output | ±1.0%F.S | SAFE overload range | 150%F.S |
| **Input impedance** | 750±10Ω | Limit Overload Range | 200%F.S |
| Output impedance | 700±5Ω | Cable specifications | Φ5mm×3m |
| Insulation Resistance | ≥5000MΩ/100V DC | Protection level | Ip65 |

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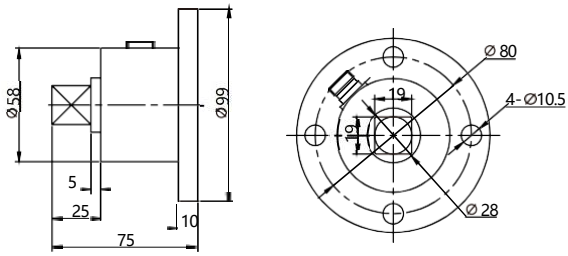


# KDEV-N-5B

## Product characteristics

- The resistance strain is made up of sensitive element and integrated circuit, with high precision and stable performance. One end is connected by square key, the other end is connected by !ange, so it is easy to install and use.

- **Mounting dimensions**




- **Force mode**



## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range) | 0-20/50/100/200/300/500 NM | Sensitivity temperature effect | ±0.05%F.S/10℃ |
| Composite Error | ≤±0.1%, ≤±0.3% | Zero temperature effect | ±0.05%F.S/10℃ |
| Non-linear | 0.2% | Temperature compensation range | -10~60℃ |
| Sensitivity | 1.5±10%mV/V | Operating temperature range | -20~65℃ |
| Creep | ±0.03%F.S/30min | Excitation voltage | 5~ 12V |
| Zero output | ±1.0%F.S | **SAFE overload range** | 150%F.S |
| Input impedance | 350/750±10Ω | Limit Overload Range | 200%F.S |
| Output impedance | 350/700±5Ω | Cable specifications | Φ5mm×3m |
| Insulation Resistance | ≥5000MΩ/100V DC | Protection level | Ip65 |

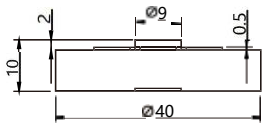


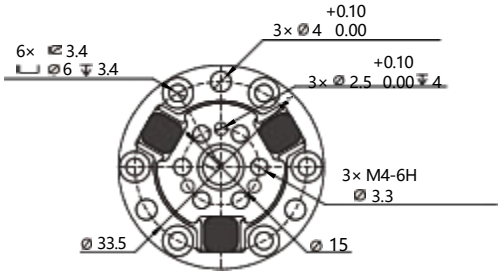
# KDEV-N-5C

## Product characteristics

- Adopt high-quality stainless steel material, disc structure, with reasonable structure design, high precision, good stability, small size, low height, easy installation and so on. It is suitable for measuring the torque value of various static and discontinuous rotation in disc connection, drilling rig and industrial automation.

- **Mounting dimensions**




- **Force mode**



## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 20/50/80/100 NM | Sensitivity temperature effect | ±0.1%F.S/10℃ |
| Composite Error | ±0.5%F.S. | Zero temperature effect | ±0.1%F.S/10℃ |
| Non-linear | 0.3%F.S. | Temperature compensation range | -10~40℃ |
| Output sensitivity | 1.0±10%mV/V | Operating temperature range | -20~60℃ |
| Lag behind | 0.05%F.S | Recommended excitation voltage | 5~10V |
| Service life | Over 1 million times | Maximum excitation voltage | 12V |
| Materials | **stainless steel** | SAFE overload range | 120%F.S |
| Cable specifications | Φ3mm×3m | Limit Overload Range | 150%F.S |
| Insulation Resistance | ≥5000MΩ/100V DC | Protection level | Ip66 |

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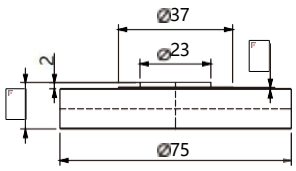


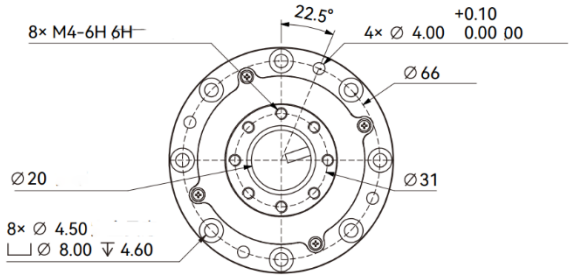
# KDEV-N-5D

## Product characteristics

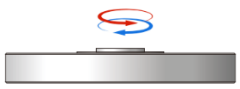
- The resistance strain is an integral product composed of sensitive element and integrated circuit, with high precision, stable and reliable performance, wide measurement range, static torque measurement, double !ange connection, easy installation and use. Torque sensor adopts German technology and production equipment and advanced testing equipment.

- **Mounting dimensions**




**Force mode**



## 技术参数 / Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 50/100/150 NM | Sensitivity temperature effect | ±0.05%F.S/10℃ |
| Composite Error | ±0.5%F.S. | Zero temperature effect | ±0.05%F.S/10℃ |
| Non-linear | 0.5%F.S. | Temperature compensation range | -10~85℃ |
| Output sensitivity | 1.0±10%mV/V | Operating temperature range | -20~85℃ |
| Lag behind | 0.3%F.S | Recommended excitation voltage | 10VDC |
| Service life | Over 2 million times | Maximum excitation voltage | 12VDC |
| Materials) | 17-4 | SAFE overload range | 150%F.S |
| Cable specifications | Φ3mm×3m | Limit Overload Range | 200%F.S |
| Insulation Resistance | ≥5000MΩ/100V DC | Protection level | Ip56 |

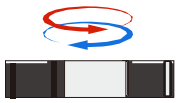


# KDEV-N-5G

## Product characteristics

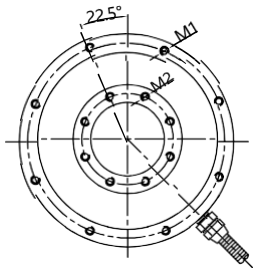
- Low height, large measuring range, convenient installation of !ange structure. Stainless steel structure,
- high precision, good stability, static torque testing equipment, torque wrench and other torque testing equipment.

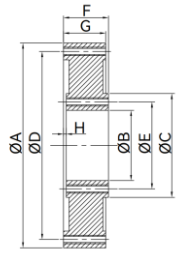
- **Force mode**



- **Mounting dimensions**

| NM | ΦA | ΦB | ΦC | ΦD | ΦE | F | G | H | N1 | M2 |
|---|---|---|---|---|---|---|---|---|---|---|
| 50/100/200 | 146 | 50 | 74 | 134 | 62 | 32 | 30 | 2 | 8-M6 | 8-M6 |
| 300/500 | 196 | 80 | 110 | 178 | 95 | 42 | 40 | 2 | 8-M10 | 8-M8 |
| 1000 | 214 | 100 | 130 | 196 | 116 | 43 | 40 | 2 | 8-M10 | 8-M10 |




## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 0-50/100/200/500/1000 NM | Sensitivity temperature effect | ±0.03%F.S/10℃ |
| Composite Error | ≤±0.1%, ≤±0.3% | Zero temperature effect | ±0.03%F.S/10℃ |
| Non-linear | 0.2% | Temperature compensation range | -10~60℃ |
| Sensitivity | 1.5±10%mV/V | Operating temperature range | -20~65℃ |
| Creep | ±0.03%F.S/30min | Excitation voltage | 5~12V |
| Zero output | ±2.0%F.S | SAFE overload range | 150%F.S |
| Input impedance | 750±10Ω | Limit Overload Range | 200%F.S |
| Output impedance | 700±50Ω | Cable specifications | Φ3mm×3m |
| Insulation Resistance | ≥5000MΩ/100V DC | Protection level | Ip65 |

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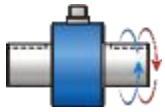
# KDEV-N-6A



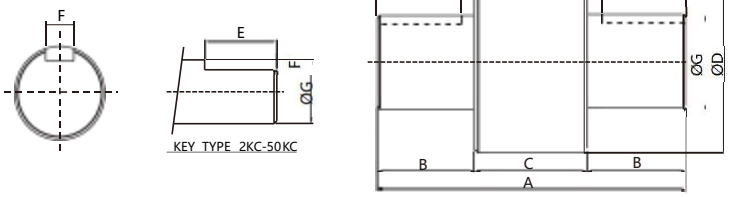
## Product characteristics

- Resistance strain gauge principle, high precision, stable and reliable performance, low-range torque measurement , shaft connection, easy installation and use.

- **Force mode**



## Mounting dimensions




| Capacity | A | B | C | ΦD | E | F | G |
|---|---|---|---|---|---|---|---|
| 2kgf-cm(0.196N-m) | 75 | 20 | 35 | 34 | 15 | 1 | 8 |
| 5kgf-cm(0.490N-m) | 75 | 20 | 35 | 34 | 15 | 1 | 8 |
| 10kgf-cm(0.981N-m) | 75 | 20 | 35 | 34 | 15 | 1 | 8 |
| 20kgf-cm(1.96N-m) | 75 | 20 | 35 | 34 | 15 | 1 | 8 |
| 30kgf-cm(2.942N-m) | 75 | 20 | 35 | 34 | 15 | 1 | 12 |
| 50kgf-cm(4.903N-m) | 75 | 20 | 35 | 34 | 15 | 1 | 12 |
| 1kgf-m(9.807N-m) | 82 | 21 | 40 | 40 | 16 | 5*5 | 18 |
| 2kgf-m(19.61N-m) | 82 | 21 | 40 | 40 | 16 | 5*5 | 18 |
| 2kgf-m(29.42N-m) | 82 | 21 | 40 | 43 | 16 | 5*5 | 18 |
| 2kgf-m(49.03N-m) | 82 | 21 | 40 | 43 | 16 | 5*5 | 18 |
| 2kgf-m(98.07N-m) | 110 | 35 | 40 | 62 | 30 | 10*8 | 32 |
| 2kgf-m(196.1N-m) | 110 | 35 | 40 | 62 | 30 | 10*8 | 32 |
| 2kgf-m(490.3N-m) | 155 | 55 | 45 | 84 | 50 | 12*8 | 47 |
| 2kgf-m(980N-m) | 155 | 55 | 45 | 84 | 50 | 12*8 | 47 |

## Technical parameters

| | | | |
|---|---|---|---|
| Measuring range | 0-0.2/0. 5/1/2/ 3/5/10/20/30/50/ 100/2 00/500/ 10 00 NM | Sensitivity temperature effect | ±0.03%F.S/10℃ |
| Composite Error | ≤±0.3% | Zero temperature effect | ±0.03%F.S/10℃ |
| Non-linear | 0.2% | Temperature compensation range | - 10~60℃ |
| Sensitivity | 1.5±10%mV/V | Operating temperature range | -20~65℃ |
| Creep | ±0.03%F.S/30min | Excitation voltage | 5~ 12V |
| Zero output | ±2.0%F.S | SAFE overload range | 150%F.S |
| Input impedance | 750±10Ω | Limit Overload Range | 200%F.S |
| Output impedance | 700±50Ω | Protection level | Ip65 |
| Insulation Resistance | ≥5000MΩ/100V DC | Cable specifications | Φ4mm×3m |

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