

Double convex type load cell DC002 series with digital output

2024/02/28

Features



The built-in amplifier with excellent noise-proof enables high precision measurement.
Approved OIML R60 Class C6.

Specification

| Specification name | Specification contents |
|-------------------------------|-------------------------------------|
| OIML accuracy class | OIML R60 C6 |
| Maximum scale interval | 6,000 |
| Rated capacity | 10t~40t |
| Minimum detected scale (Vmin) | 0.625kg~2.5kg |
| Safe overload | 150 %R.C. |
| Ultimated overload | 200 %R.C. |
| Rated output | 1 000 000 count±500 count |
| Non-linearity | 0.012 %R.O. |
| Hysteresis | 0.012 %R.O. |
| Repeatability | 0.010 %R.O. |
| Creep | 0.008 %R.O./30 min |
| Zero return | 0.008 %R.O./30 min |
| Power supply voltage | DC7.5 V ~ DC15 V |
| Power consumption | DC35 mA (at DC12 V of power supply) |
| Zero balance | ±10,000 count |
| Insulated resistance | 100 MΩor more (DC50 V) |
| Temp. range, compensated | -10 °C~40 °C |

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|------------------------------------|---|
| Temp. range, safe | -20 °C~70 °C |
| Temp. effect on zero balance | 0.014 %R.O./10 °C |
| Temp. effect on output | 0.010 %LOAD/10 °C |
| Digital output | |
| Signal | Differential signal (Conforming to RS-485) |
| Data output frequency | 160 times/s at maximum |
| Baud rate | 57 600 bps |
| Data bit length | 7 bit |
| Parity bit | Odd |
| Stop bit | 1 bit |
| Terminator | CR |
| Transmission method | Half duplex |
| Synchronous method | Start-stop synchronization |
| Address | 0 ~ 9 |
| No. of Connectable unit | Up to 8 units |
| Transmission data | ASCII Code |
| Standard function | Digital filter, Stabilization filter, A/Z, A/Z OFF |
| Protection class | IP68 or equivalent |
| Material of element | Alloy steel |
| Material of cover | Stainless steel (lost wax) |
| Durability | 1,000,000 times with rated load applied. |
| Allowable horizontal moving length | 10 mm (Please set the stopper of truck scale within 5 mm.)Recommended movable range is 2 mm ~ 3 mm. |
| Accessories | Guide ring, Inspection data sheet |

Table of P/N

| Parts No. | Rated capacity [t] | Natural frequency [Hz] | Rated displacement [mm] | Weight(Approx.) [kg] | Cable | 3D CAD files [STEP] |
|-----------|--------------------|------------------------|-------------------------|----------------------|---|-----------------------------------|
| DC002-10T | 10 | 3900 | 0.2 | 4.5 | φ7.0, 4-cores shielded 12 m cable and cable end is separated. | DC002-10T~30T.zip |
| DC002-20T | 20 | 5500 | 0.2 | 4.5 | φ7.0, 4-cores shielded 12 m cable and cable end is separated. | DC002-10T~30T.zip |
| DC002-25T | 25 | 6000 | 0.2 | 4.5 | φ7.0, 4-cores shielded 12 m cable and cable end is separated. | DC002-10T~30T.zip |

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|-----------|----|------|-----|-----|---|-----------------------------------|
| DC002-30T | 30 | 6700 | 0.2 | 4.5 | φ7.0, 4-cores shielded 12 m cable and cable end is separated. | DC002-10T~30T.zip |
| DC002-40T | 40 | 5600 | 0.2 | 6.5 | φ7.0, 4-cores shielded 15 m cable and cable end is separated. | DC002-40T.zip |

| Parts No. | CAD files[DXF] | Specification sheet | Instruction Manual |
|-----------|-----------------------------------|-------------------------------|---------------------------------------|
| DC002-10T | dc002-10t_30t.dxf | No.KT52892-2E | ENKT60708-1_DC002.pdf |
| DC002-20T | dc002-10t_30t.dxf | No.KT52892-2E | ENKT60708-1_DC002.pdf |
| DC002-25T | dc002-10t_30t.dxf | No.KT52892-2E | ENKT60708-1_DC002.pdf |
| DC002-30T | dc002-10t_30t.dxf | No.KT52892-2E | ENKT60708-1_DC002.pdf |
| DC002-40T | dc002-40t.DXF | No.KT52892-2E | ENKT60708-1_DC002.pdf |

Options

<Mounting attachment>

[AIC series AIC2](#)

<Mounting attachment with slide stop mechanism>

[Check rod method mounting attachment CCA-CC002-*](#)