

SARALI IIII

Compression Load Cell

# TC-FR(T)□□N/KN-G6

**Tension Load Cell** 

# TT-FR(T)□□N/KN-G6

TT-FR

180

TC-FR

# Compact & Universal Stainless Steel

Compression Load Cell (TC-FR) / Tension Load Cell (TT-FR)

## **Benefit**

Easy to install on the existing facilities/systems.

## Vacuum compatible

Works in vaccum state. (TC-FR custom design model)

# Durable Robot Cable standardized

Enhanced durability against bending that occurs in moving parts with frequent repetitive motion, such as industrial robots and machine tools. High stability and reliability are realized.

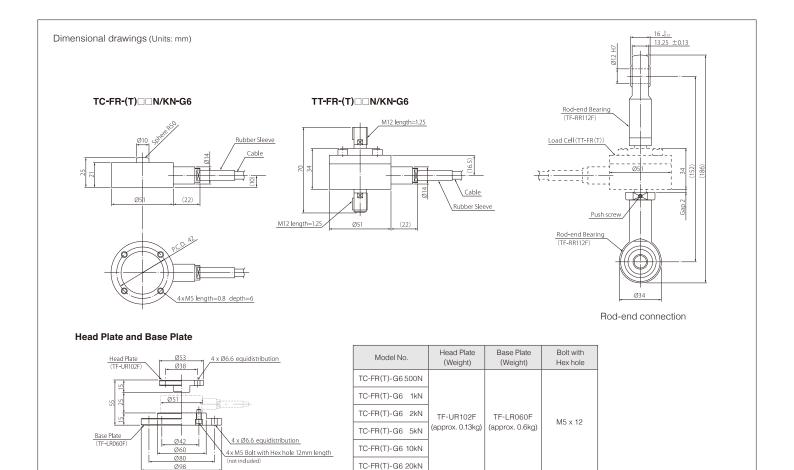
# Plug & Play with built-in TEDS

With the TD series indicators, equivalent input calibration, likely to forget in manual setting, can be performed automatically and help prevetion. (See the reverse page for detail on TEDS)

#### Specifications

Туре	Compression Load Cell				TensionLoad Cell						
	TC-FR(T)□□N/KN-G6			TT-FR(T)□□N/KN-G6							
Model				TEDS	(Embeded in	the body)			TEDS	(Embeded ir	1 the body)
				RoHS	(10 substanc	es)			RoHS	(10 substand	ces)
Rated Capacity (R.C.)	500N	1kN	2kN	5kN	10kN	20kN	500N	1kN	2kN	5kN	10kN
Natural Frequency	3.6kHz	5.0kHz	6.0kHz	7.0kHz	10.0kHz	TBA*	3.6kHz	5kHz	6kHz	7kHz	10kHz
Weight	230g	230g	230g	230g	230g	230g	0.24kg	0.24kg	0.24kg	0.24kg	0.24kg
Safe overload rating		150 % R.C.				150 % R.C.					
Rated Output (R.O.)		2mV/V ±1%				2mV/V ±0.5%					
Linearity	0.1% R.O.				0.15% R.O.						
Hysterisis	0.1% R.O.				0.1% R.O.						
Repeatability	0.05% R.O.				0.05% R.O.						
Safe Excitation Voltage	15V				15V						
Input Terminal Resistance	425 ±50Ω				425 ±50Ω						
Output Terminal Resistance	350 ±5Ω				350 ±5Ω						
Insulation Resistance	1000MΩ (DC 50V)				1000MΩ (DC 50V)						
Compensated Temperature Range	–10°C to 70°C				-10°C to 70°C						
Permissible Temperature Range	-10°C to 70°C				-10°C to 70°C						
Temperature Effect on Zero Balance	0.05% R.O. / 10°C				0.05% R.O. / 10°C						
Temperature Effect on Output	0.1% R.C. / 10°C				0.05% R.C. / 10°C						
Cable	Φ6, 6-core shielded, 5m direct connection robot cable with bare lead wires				Φ6, 6-core shielded, 5m direct connection robot cable with bare lead wires						
Mounting Method	Screw hole, Base Plate				Male screw (M12)						
Body Material	Stainless Steel				Stainless Steel						

\* Please contact us for more details.



92 x 45 mm

Panel opening size

Related Products (Indicators and Signal Conditioners)



Color Graphics Digital Indicator **TD-9000T** 

RS-485 model EtherNet/IP™ model CC-Link model

#### **High performance model** with large LCD

Supporting two inputs, force sensor and displacement sensor, various comparison judgments function, and direct saving of waveform data onto large capacity internal memory.

TEDS	RoHS	4.3" LCD
Touch Panel	5,000 time/sec.	24-bit
Load/Vary Inputs	Waveform	Static Strain
Interrupt Check	High/Low Limit Compare	Judgements
D/A OUT	RS-232C	Bilingual

# CALINE EtherNet/IP

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Signal Conditioner

#### Slim and light-weight signal conditioner

Supporting high-speed sampling of 20,000 times/second, PC-based configuration via USB connection, selectable network, and TEDS calibration function.

TEDS	RoHS	Plug-in				
20,000 time/sec.	24-bit	Static Strain				
Bilingual	High/Low Limit Compare	Hold Functions				
CE K						
CC-Link <sup>*</sup> EtherNet/IP <sup>**</sup>						
* Under plan	ning					



Portable Digital Indicator **TD-01** Portable

#### **On-site checking tool** with versatility

Supporting various functions that equal to embeded systems, in hand-held size, allowing you to take measurements anytime anywhere, according to your purpose.



https://loadcell.jp/en/products/loadcell/tc-fr-g6.html https://loadcell.jp/en/products/loadcell/tt-fr-g6.html



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Digital Indicator **TD-700T** Standard model

CC-Link model RS-485 model

#### **Excellent model with compact** and high functionality

Supporting five key functions in one unit, numeric display, graph display, TEDS function, static strain display, and signal conditioner. This small and cost-effective TD-700T achieves equal or even higher performance to upper-class models, with high-visibility color LCD and various hold functions.

TEDS	RoHS	4,000 time/sec.	24-bit
Static Strain	Waveform	Bar Meter	D/A OUT
Data Rec	Various Holds	Bilingual	AC/DC Power

