

TCLB-NA Tension/Compression Universal Load Cell 50~200N

Made-to-order



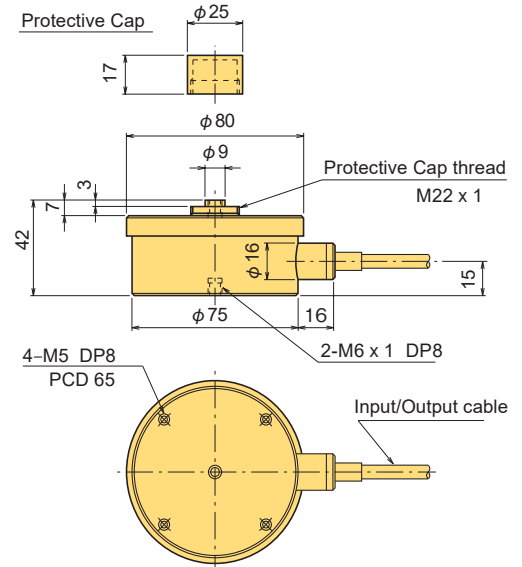
**Low capacity
High precision**

The TCLB-NA Tension/Compression Universal Load Cell is a low capacity load cell. It can be used for high precision measurement because the internal structure uses both ends fixed beam for the strain sensing element.

Protection ratings: IP40 equivalent TCLB-50NA
IP42 equivalent TCLB-100NA/-200NA

SPECIFICATIONS

TYPE	TCLB-50NA	TCLB-100NA	TCLB-200NA
Capacity	50N	100N	200N
Rated Output	1.5mV/V(3000×10 ⁻⁶ strain) ±0.5%		
Non-linearity	0.1%RO		
Hysteresis	0.1%RO		
Natural frequency	0.9kHz	1.4kHz	2kHz
Temperature effect on zero	0.01%RO/°C		
Temperature effect on span	0.01%/°C		
Compensated temperature range	-10 ~ +60°C		
Allowable temperature range	-20 ~ +70°C		
Over load	150%		
Input/Output resistance	350Ω±2%		
Recommended exciting voltage	6V or less		
Allowable exciting voltage	15V		
Zero balance	5%RO		
Weight	0.45kg		0.9kg



FITTING ACCESSORY

Spherical Cap FA	Mounting Flange FB	Rotary at-attachment FD	Rod End FE	Load Button FG
FA-20	FB-002-65	FD-002	FE-002A	FG-002

Refer to pages 35~38 for load cell fitting accessories.

Input/Output cable :
φ9mm 0.5mm² 4-core shielded chloroprene cable 5m

TCLA-NB Tension/Compression Universal Load Cell 500N~20kN



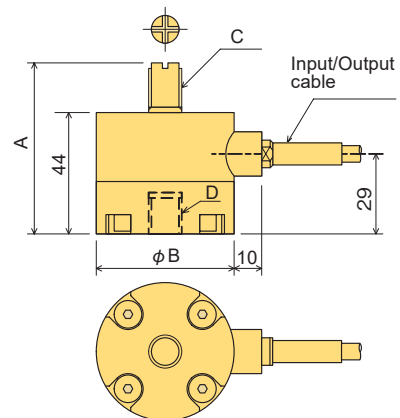
**Small size
Hermetically sealed**

The TCLA-NB Tension/Compression Universal Load Cell comes to much smaller and lightweight than conventional TCLA-NA. High capacity ranges of 10kN and 20kN are added on the line. It is hermetically sealed, enabling highly precise and consistent measurement.

Protection ratings: IP67 equivalent

SPECIFICATIONS

TYPE	TCLA-500NB	TCLA-1KNB	TCLA-2KNB	TCLA-5KNB	TCLA-10KNB	TCLA-20KNB
Capacity	500N	1kN	2kN	5kN	10kN	20kN
Rated Output	1.5mV/V(3000×10 ⁻⁶ strain) ±2%	1.5mV/V(3000×10 ⁻⁶ strain) ±1%	2.0mV/V(4000×10 ⁻⁶ strain) ±1%			
Non-linearity	0.3%RO		0.2%RO			
Hysteresis	0.1%RO					
Natural frequency	4.5kHz	6.7kHz	8.5kHz	13kHz	17kHz	16kHz
Temperature effect on zero	0.01%RO/°C					
Temperature effect on span	0.01%/°C					
Compensated temperature range	-10 ~ +60°C					
Allowable temperature range	-20 ~ +70°C					
Over load	150%			120%		
Input/Output resistance	350Ω±2%					
Recommended exciting voltage	6V or less					
Allowable exciting voltage	15V					
Zero balance	5%RO					
Weight	0.6kg				0.7kg	



DIMENSIONS

TYPE	A	φB	C	D
TCLA-500NB ~ 10KNB	62	50	M12 x 1.75	M12 x 1.75 DP15
TCLA-20KNB	64	55	M18 x 1.5	M18 x 1.5 DP15

FITTING ACCESSORY

TYPE	Rotary at-attachment FD	Rod End FE
TCLA-500NB ~ 5KNB	FD-05B	FE-05A / FE-05B
TCLA-10KNB	FD-1B	FE-1A/FE-1B
TCLA-20KNB	FD-2B	FE-2A/FE-2B

Refer to pages 35~38 for load cell fitting accessories.
Input/Output cable :
φ6mm 0.35mm² 4-core shielded chloroprene cable 5m