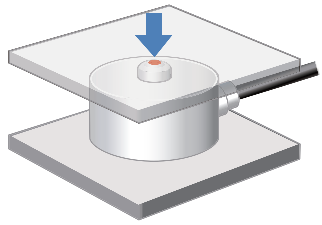
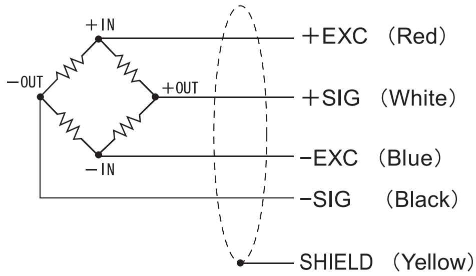
UNBF

COMPRESSION TYPE LOAD CELL

Application Example



Wiring Diagram



Specifications

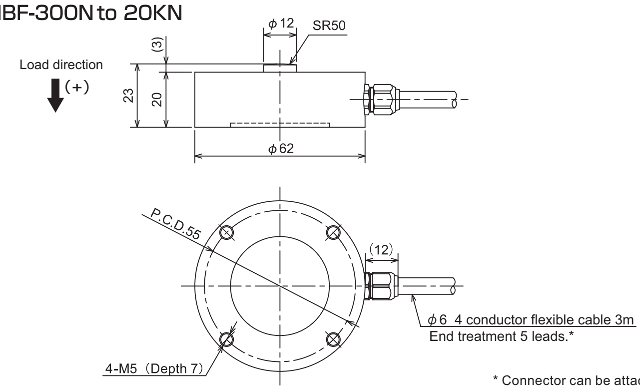
Model	Please refer to the Model list		
Rated capacity	300, 500, 1k, 2k, 3k, 5k, 10k, 20k	30k, 50k, 100k, 200k, 300k, 500k	N
Rated output	2±0.5%		mV/V
Safe overload	150		%R.C.
Zero balance	±10		%R.O.
Non-linearity	0.2	0.35	%R.O.
Hysteresis	0.2	0.35	%R.O.
Repeatability	0.1	0.20	%R.O.
Compensated temperature range	−10 to +60		℃
Safe temperature range	−20 to +70		℃
Temperature effect on zero	0.1		%R.O./10℃
Temperature effect on span	0.1		%R.O./10℃
Input resistance	Approx. 400		Ω
Output resistance	Approx. 350		Ω
Recommended excitation voltage	10		V
Maximum excitation voltage	20		V
Insulation resistance (DC50V)	1000 or more		MΩ
Cable	ϕ6 4 conductor flexible cable 3m End treatment 5 leads.	ϕ8 4 conductor flexible cable 3m End treatment 5 leads.	
Load cell material	Stainless steel		

Model list

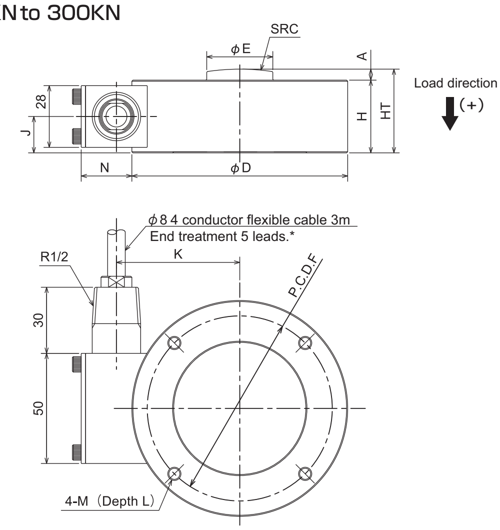
UNBF-300N	UNBF-20KN
UNBF-500N	UNBF-30KN
UNBF-1KN	UNBF-50KN
UNBF-2KN	UNBF-100KN
UNBF-3KN	UNBF-200KN
UNBF-5KN	UNBF-300KN
UNBF-10KN	UNBF-500KN

External dimension

■ UNBF-300N to 20KN

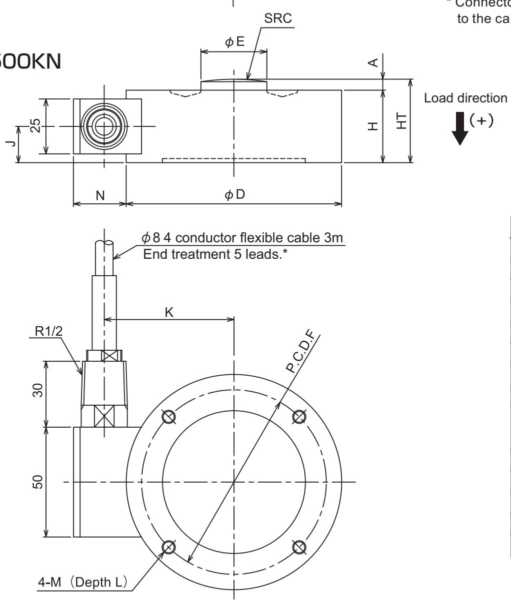


■ UNBF-30KN to 300KN



* Connector can be attached to the cable according to your requests.

■ UNBF-500KN



Unit mm

Model Stainless steel	Deflection at rated	Natural frequency	Weight	A	ϕD	ϕE	H	HT	P.C.D.F	M	L	SRC	J	K	N
UNBF-300N	0.060mm	2.8kHz	0.4kg												
UNBF-500N	0.040mm	3.6kHz	0.4kg												
UNBF-1KN	0.040mm	5.4kHz	0.4kg												
UNBF-2KN	0.035mm	7.8kHz	0.4kg												
UNBF-3KN	0.035mm	9.3kHz	0.4kg												
UNBF-5KN	0.035mm	13kHz	0.4kg												
UNBF-10KN	0.055mm	16kHz	0.4kg												
UNBF-20KN	0.050mm	23kHz	0.4kg												
UNBF-30KN	0.130mm	9kHz	1.8kg	5	98	30	33	38	84	M6	7	100	16.5	56	23
UNBF-50KN	0.140mm	12kHz	1.8kg	5	98	30	33	38	84	M6	7	100	16.5	56	23
UNBF-100KN	0.160mm	17kHz	1.8kg	8	98	30	35	43	84	M6	7	150	17.5	56	23
UNBF-200KN	0.200mm	9.4kHz	4.4kg	10	138	50	43	53	110	M8	8	200	21	78	25
UNBF-300KN	0.250mm	8.9kHz	8.5kg	12	160	60	53	65	130	M10	10	250	30	90	26
UNBF-500KN	0.350mm	6.2kHz	13kg	15	200	80	60	75	160	M12	12	250	30	113	27