

Load cell with amplifier DLRx L002

Features

- Voltage (DLRU) or current output (DLRI)
- Compact dimensions
- For compression
- Protection class IP 65
- Stainless steel



Technical Data

Standard capacities	0...500 N 0...1000 N 0...2000 N	0...5000 N 0...10000 N
Output signal at FSR	DLRU 0...10 V DLRI 4...20 mA	
Linearity	0,5% FS	
Hysteresis	0,5% FS	
Non-repeatability	< 0,1% FS	
Creep error	< 0,15% FS (after 30 min. with FS)	
Zero balance	DLRU < 5 mV DLRI < 8 µA	
Reset-Input active	5...33 VDC < 2 mA	
Reset-Input inactive	< 1 VDC	
Reset-Pulse	> 1 ms	
Reset time	< 5 ms	
Switching frequency	1000 Hz	
Signal polarity	DLRU unipolar (compression +10 V) DLRI unipolar (compression 20 mA)	
Noise	DLRU (0...5 kHz) < 5 mVpp DLRI (0...5 kHz) < 8 µApp	
Compensated temperature range	0...+70 °C	
Operating temperature range	-20...+70 °C	
Storage temperature range	-40...+85 °C	
Temperature effect zero	< ±0,02% /K	
Temperature effect span	< ±0,03% /K	
Bridge resistance	Full bridge 350 Ω	
Isolation resistance	> 3 GΩ	
Excitation	DLRU 18...33 V DLRI 14...33 V	
Supply current	DLRU < 60 mA DLRI < 90 mA	
– static load	200% FS	
– dynamic load	100% FS	
Breaking load	320% FS	
Protection class	IP 65	

FS = Full scale output

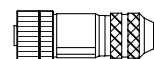
Technical Data

Cable	5 m, shielded, PUR
Load cell material	1.4542

Order Code

DLR	L002.	B	CO/		Option
					C Top cover
					CL10 10 m cable length (5 m standard)
					CCL10 Combinations possible
					Load transmission
					CO Compression (see drawing)
					Measuring range
					150 0...500 N
					210 0...1000 N
					220 0...2000 N
					250 0...5000 N
					310 0...10000 N
					Combined error
					B 0,3%
					Connection
					14C 5-pin connector series M12 x 1
					Output
					U Voltage output 0...10 V
					I Current output 4...20 mA

Accessories (not included in delivery)



Series 713

Bushing, control side, 5-pin, Part No. 10135462

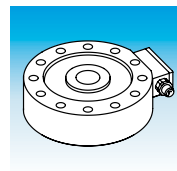


M12 x 1

Bushing with cable, control side, 5-pin
ES 34CP2B 5-pin (shielded) 2 m, PUR,
(Part No. 10144720)

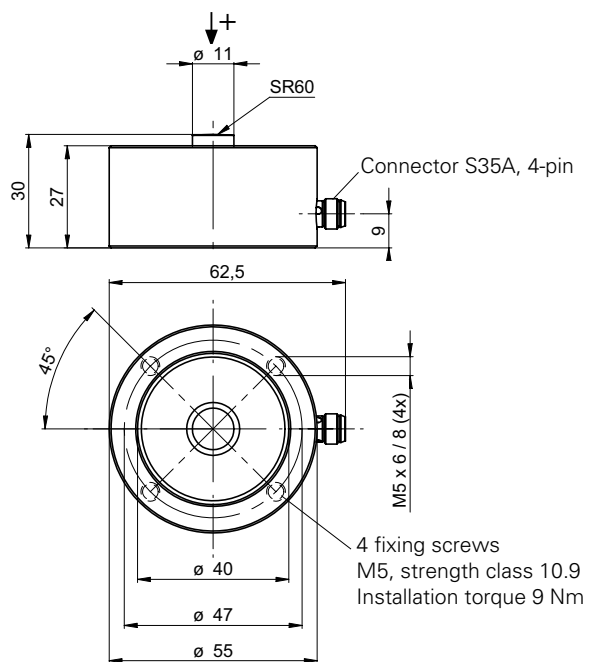
ES 34CP5B 5-pin (shielded) 5 m, PUR,
(Part No. 10137485)

ES 34CP10B 5-pin (shielded) 10 m, PUR,
(Part No. 10155587)

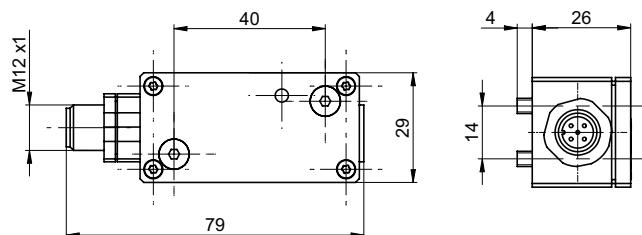


Dimensions (mm)

Load cell



Amplifier DABx AD2T



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Electrical Connection

DLRU

14C



Pin

1	+Vs
2	-V _{OUT}
3	GND
4	+V _{OUT}
5	Reset
Housing	⏏

DLRI

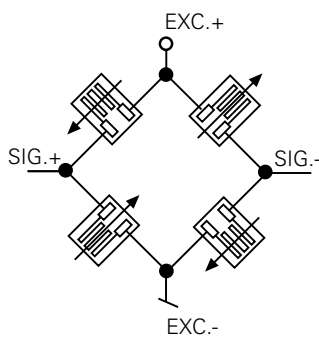
14C



Pin

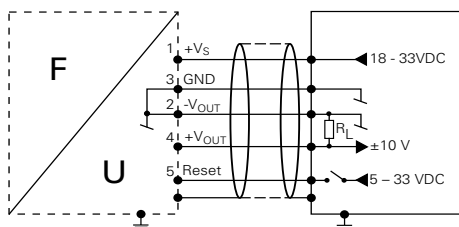
1	+Vs
2	-I _{OUT}
3	GND
4	+I _{OUT}
5	Reset
Housing	⏏

Bridge Circuit



Wiring

DLRU



DLRI

