

Load cell with amplifier DLRx L001

Features

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



Technical Data

Standard capacities	0...5000 N 0...10000 N
Output signal at FS	DLRU 0...10 V DLRI 4...20 mA
Linearity	0,5% FS
Hysteresis	0,5% FS
Non-repeatability	< 0,1% FS
Creep error	< 0,2% 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	< ±0,05% /K
Temperature effect span	< ±0,06% /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	150% FS
– dynamic load	100% FS
Breaking load	220% FS
Protection class	IP 65

FS = Full scale output

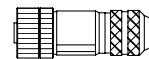
Technical Data

Cable	5 m, shielded, PUR
Load cell material	1.4542

Order Code

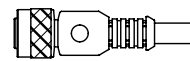
DLR	L001.	.C	CO/	
				Optional cable length (2 m standard)
				CL05 5 m cable length CL10 10 m cable length
				Load transmission
				CO Compression (see drawing)
				Measuring range
				250 0...5000 N 310 0...10000 N
				Combined error
				C 0,5%
				Connection
				14C 5-pin connector series M12 x 1
				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



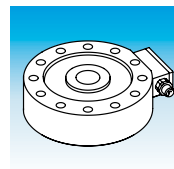
M12 x 1

Bushing with cable, control side, 5-pin

ES 34CP2B 5-pin (shielded) 2 m, PUR,
(Part No. 10144720)

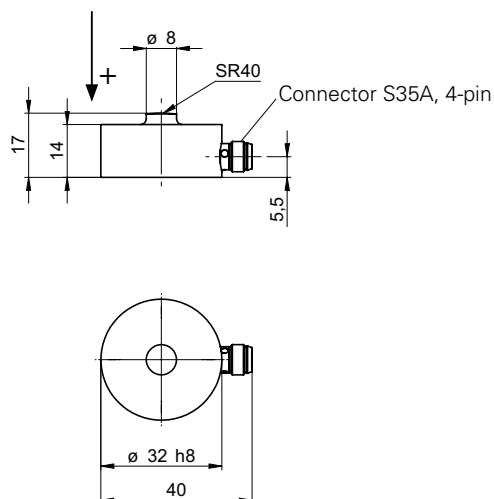
ES 34CP5B 5-pin (shielded) 5 m, PUR,
(Part No. 10137485)

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

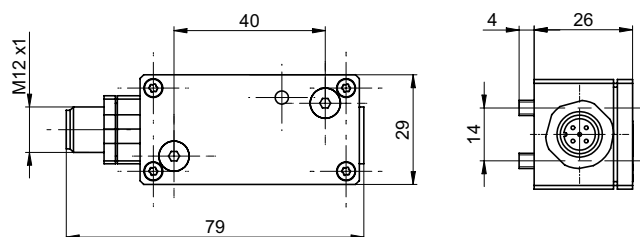


Dimensions (mm)

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

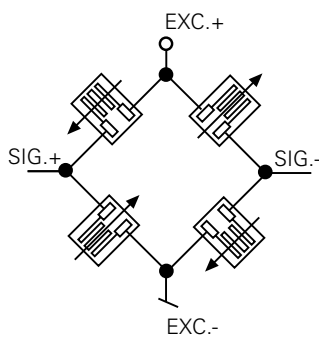
14C



Pin

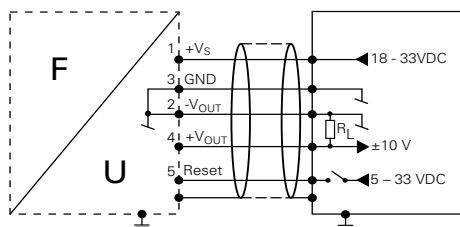
1	+Vs
2	-I _{OUT}
3	GND
4	+I _{OUT}
5	Reset
Housing	⏏

Bridge Circuit



Wiring

DLRU



DLRI

