



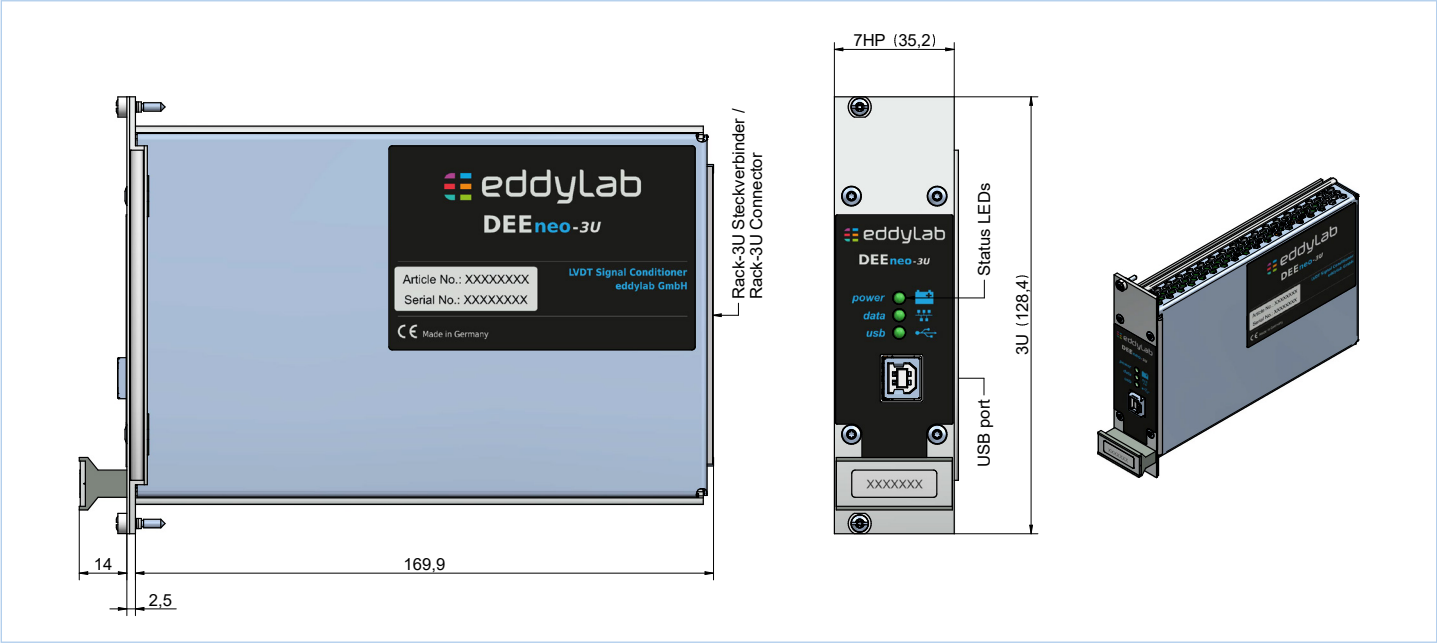
DEEneo 3U | LVDT

Digital signal conditioner for inductive sensors (LVDT) in 3U format and corresponding 19"Racks.

- Supporting a wide range of inductive sensors (LVDT)
- Digital signal processing by microcontroller
- Digitalization via 16 bit AD converter
- Linearisation of sensor signal
- Signal adjustment via software
- Cable break detection
- Alarm signal and switching output
- Analogue output & USB-Interface

CONDITIONER

■ TECHNICAL DRAWING CONDITIONER

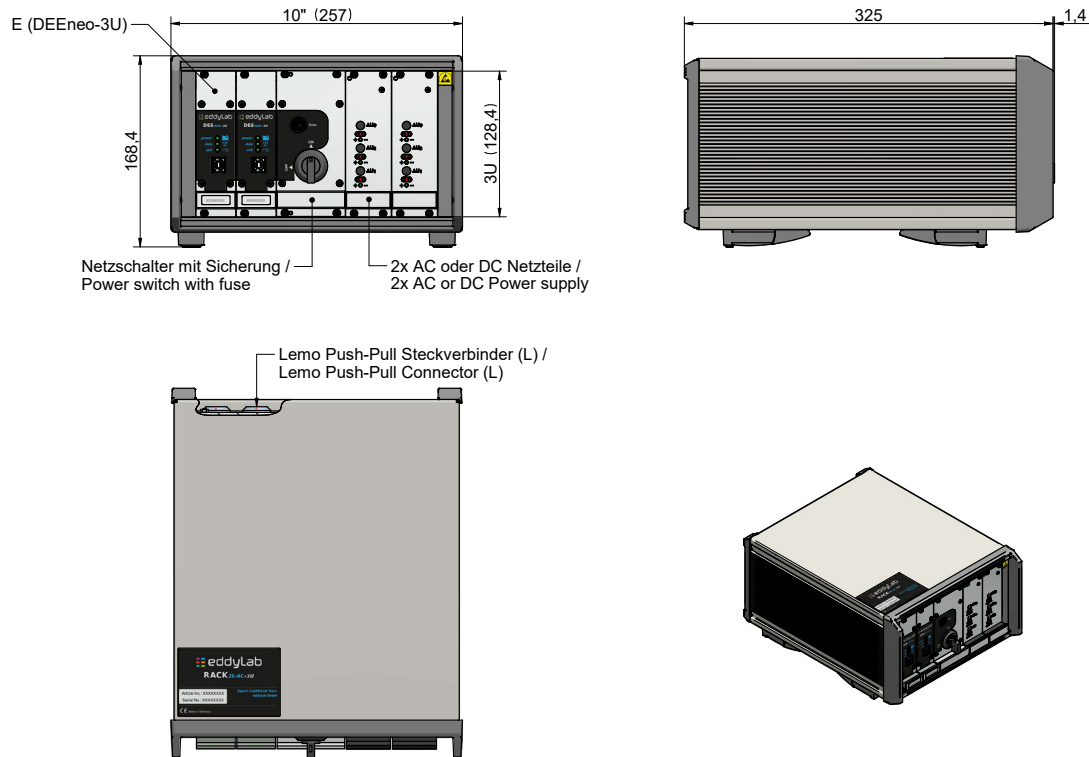


■ TECHNICAL DATA CONDITIONER

CONDITIONER	DEEneo-3U
General	
Material housing	Anodised aluminium
Connection to Rack-3U	Multipoint connector
Humidity	98 % (no condensation)
Operating temperature range	-40...+85 °C
Vibration ZPA (Zero Period Acceleration)	1 g
Shock	30 g/ 11 ms
Protection class	IP20
Weight (approx.) [g]	350
Power Supply	
Supply voltage	9...36 VDC
Current consumption	70 mA at 24 VDC, 130 mA at 12 VDC
Sensor supply	Standard: 3V / 3.3 kHz, digitally adjustable
Reverse polarity protection	Yes
Protection circuit	Bipolar suppressor diode 36V / polyfuse 0.5A
Isolation voltage	> 500 VDC
Analog output	
Standard output signal (Amperage)	0...20 mA, 4...20 mA, ± 20 mA
Optional output signal (Voltage)	0...5 V, ± 5 V; 0...10 V, ± 10 V
Filter corner frequency	Standard: 300 Hz, digitally adjustable
Max. working resistance (current output)	< 300 Ohm
Temperature coefficient	X
Switching-on delay (boot-time)	X
Switching-on drift	X
Output protection circuit	Polyfuse 50 mA (signal output impedance 150 Ohm)
General data and industrial standards	
Electromagnetic compatibility	EN 61326-1 / EN 55011
RoHS	Appropriate standard 2011/65/EU

DESKTOP RACK

■ TECHNICAL DRAWING DESKTOP RACK

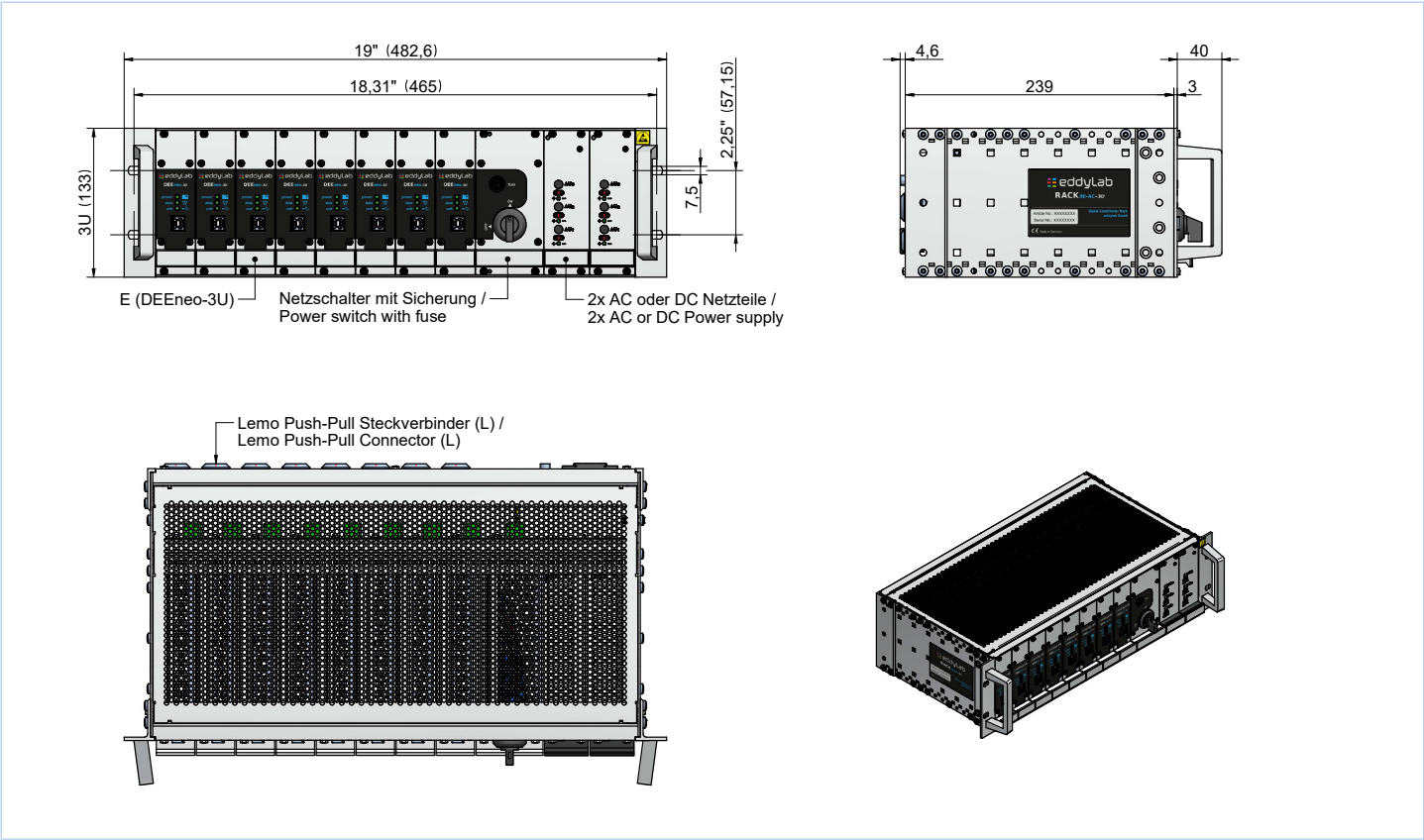


■ TECHNICAL DATA DESKTOP RACK

RACK	RACK-2E-AC-3U	RACK-2E-DC-3U
General		
Material housing	Anodised aluminium	
Construction	10-inch Desktop rack for up to 2 DEEneo-3U	
Redundant power supply design	2x AC power supply	2x DC power supply
Connection to DEEneo-3U	Multipoint connector	
Connection for power supply	C14 connector	
Connection for sensor signal cable (L) and output signal	Lemo connector EGG.2K.304.CYP	
Humidity	98 % (no condensation)	
Operating temperature range	-40...+85 °C	
Vibration ZPA (Zero Period Acceleration)	-	
Shock	-	
Protection class	IP20	
Weight empty (approx.) [g]	5400	
Weight fully equipped (approx.) [g]	6100	
Supply		
Supply voltage nominal	230 VAC	24 VDC
Supply voltage operating range	185...250 VAC / 45...400 Hz	18...36 VDC
Efficiency	≥ 75 %	≥ 72 %
Current consumption maximum	1,6 A	9,2 A
Fuse	Cartridge fuse 5 x 20 mm, 250 VDC, 10 A	

RACK

■ TECHNICAL DRAWING RACK



■ TECHNICAL DATA RACK

RACK	RACK-8E-AC-3U	RACK-8E-DC-3U
General		
Material housing	Anodised aluminium	
Construction	19-inch Rack for up to 8 DEEneo-3U	
Redundant power supply design	2x AC power supply	2x DC power supply
Connection to controllers	Multipoint connector	
Connection for power supply	Terminal block or IEC Lock C14 connector	
Connection for sensor signal cable (L) and output signal	Terminal block or optional Lemo connector EGG.2K.304.CYP	
Humidity	98 % (no condensation)	
Operating temperature range	-40...+85 °C	
Vibration ZPA (Zero Period Acceleration)	1 g	
Shock	30 g/ 11 ms (only with powersupply via terminal block)	
Protection class	IP20	
Weight (approx.) [g]	5400	
Weight fully equipped (approx.) [g]	8200	
Supply		
Supply voltage nominal	230 VAC	24 VDC
Supply voltage operating range	185...250 VAC / 45...400 Hz	18...36 VDC
Efficiency	≥ 75 %	≥ 72 %
Current consumption maximum	1,6 A	9,2 A
Fuse	2x Cartridge fuse 5 x 20 mm, 250 VDC, 10 A	

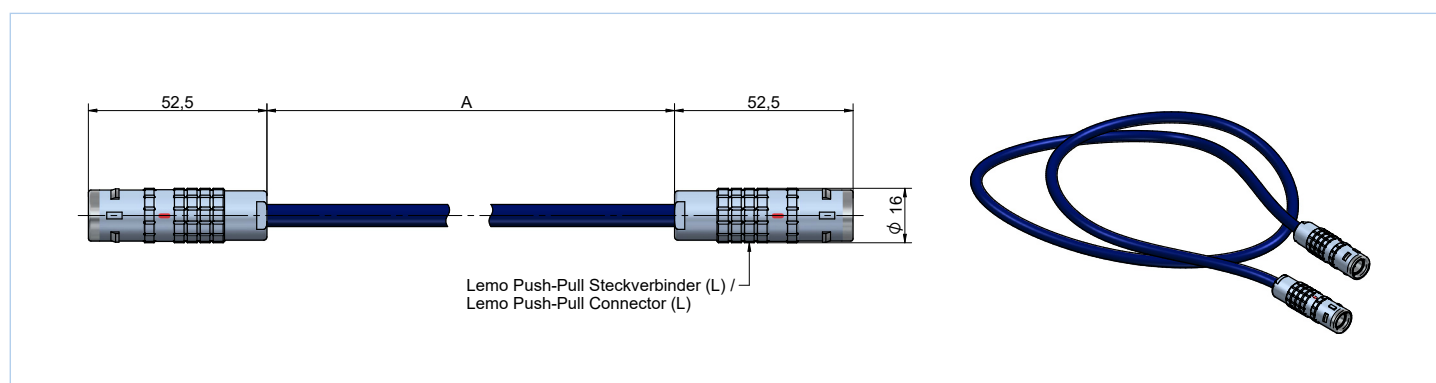
RACK	RACK-8E-AC-3U	RACK-8E-DC-3U
Signal passthrough		
Sensor signal (customer cable)	Passed through rack directly to controller	
Analog output	Passed through rack directly from controller	

Terminal block		
Rated cross-section with wire-end ferrule	0,25...2,5 mm ²	
Connecting method	Screwless spring connection	
Recommended stripping length*	8 mm	
Recommended installation tool	Slotted screwdriver 0,6 x 3,5 mm	
Material	PA	

*The use of insulated, 8 mm long wire end ferrules is recommended

CABLE

■ TECHNICAL DRAWING CABLE



■ TECHNICAL DATA CABLE

CABLE	CABLE L
General	
Material housing	Brass chrome plated
Material cable*	TPE / PTFE
Connector (L)	Lemo connector FGG.2K.304.CYBC
Humidity*	95 % at 60 °C
Operating temperature range*	-55...+100 °C (TPE) / -55... +200 °C (PTFE)**
Vibration ZPA (Zero Period Acceleration)*	10 g
Shock*	100 g / 6 ms
Protection class	IP68
Dimension A [m]*	1...200

Lemo Push-Pull Connector	
Number of contacts	4
Rated cross-section	0,25...0,5 mm ²
Connecting method	Crimp
Recommended installation tool	DPC.91.701.V + DCE.91.132.BVC
Jacket cable outside diameter***	1,3...8,5 mm

*If the customer provides their own cable, the specifications may differ. In this case, please check the data sheet of the cable provided.

**Max. temperature valid for short periods of use

***The jacket cable outside diameter must be specified in the order

