

KABI LVDT CABLE ELECTRONICS

eddyLab

- Configurable output signal (4...20 mA, 0...20 mA, 0...5 V, 0...10 V, ±5 V, ±10 V)
- Low residual noise
- Built-in cable break detection



TECHNICAL DATA

ELECTRONICS	KAB CABLE ELECTRONICS	
output signal	020 mA, 420 mA (load <300 Ohm)	
	05 V, ± 5 V (load >5 kOhm)	
	010 V, ± 10 V (looad >10 kOhm)	
temperature coefficient	-0,0055, ± 0,002 %/K	
ripple	< 0,5 mV $_{\rm eff}$ up to 300 Hz, < 4 mV $_{\rm eff}$ up to 20 MHz	
max. frequency	300 Hz/ -3 dB (6-pol. Bessel)	
isolation stability	> 1000 VDC	
power supply	936 VDC	
current consumption	65 mA at 24 VDC	
	140 mA at 12 VDC	
sensor supply (standard)	3 V _{eff} 3 kHz, (adjustable, 1-18 kHz)	
adjustable setting	frequency, amplitude, phase shift, offset, gain	
working temperature	-40+85 °C	
storage temperature	-40+85 °C	
housing	ABS	
mounting	hole ø 5,5	

ELECTRICAL CONNECTION



CABLE BREAK DETECTION

The electronics by eddylab feature a built-in cable break detection. This is achieved by an impedance measurement of the LVDT's secondary coil. If the sensor cable is cut, the impedance on the secondary connections of the electronics change regardless of the push rod position, triggering the cable break detection. This feature is based on a broken secondary connection. A partial cable break of the primary connections (cables between primary coil and electronics) will not activate this function. The electronics vary in their functional range. The external electronics IMCA offers the widest range. The cable electronics KAB only visualises a cable break by a red LED.



ORDER CODE

KAB - 24V - X - X a b		
type KAB = cable electronics output signal 020A = 020 mA	 KAB: type of cable / cable length E1: for sensor with cable output = KAB integrated in sensor cable E2: for sensor with connector output A = cable 2 m. M12 straight female connector 	 KAB: type of cable / cable length E3: for sensor with cable output M12 = KAB integrated in sensor cable, M12 connector E4: for sensor with connector output M12A = cable 2 m, M12 straight female conn., M12 conn.
420A = 420 mA 10V = 010 V 5V = 05 V $\pm 5V = -55 \text{ V}$ $\pm 10V = -1010 \text{ V}$	B=cable 2 m, M12 angular female connectorC=cable 5 m, M12 straight female connectorD=cable 5 m, M12 angular female connectorE=cable 10 m, M12 straight female connectorF=cable 10 m, M12 angular female connector	M12B= cable 2 m, M12 angular female conn., M12 conn.M12C= cable 5 m, M12 straight female conn., M12 conn.M12D= cable 5 m, M12 angular female conn., M12 conn.M12E= cable 10 m, M12 straight female conn., M12 conn.M12F= cable 10 m, M12 angular female conn., M12 conn.

possible combinations

- S3+E1: sensor with cable output, KAB integrated in sensor cable
- S3+E3: sensor with cable output, KAB integrated in sensor cable, M12 connector
- S1+E2: sensor with connector output, cable electronics with cable K4PxM
- S1+E4: sensor with connector output, cable electronics with cable K4PxM, M12 connector



