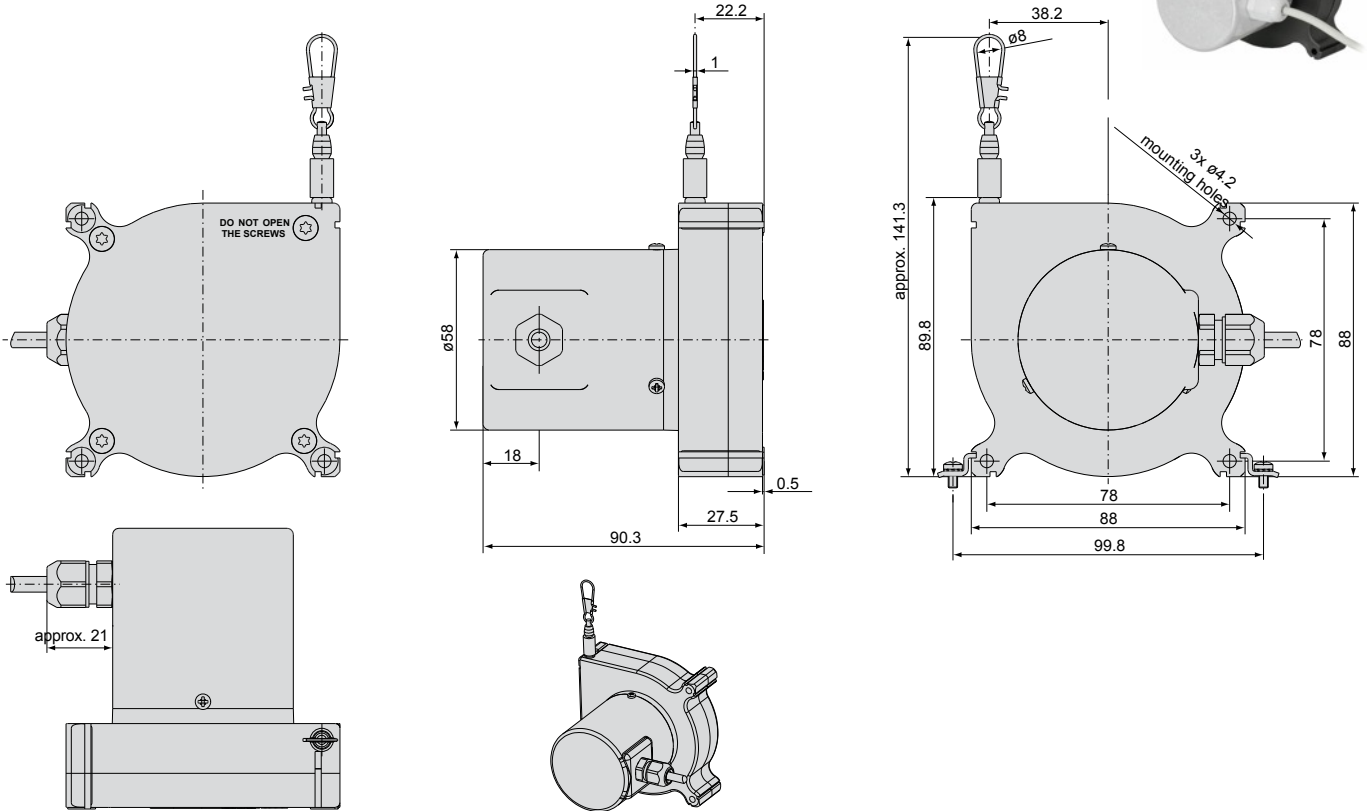




## FDMK88 analog Draw-wire sensor

The FDMK88 is especially designed for mobile applications in series such as mobile cranes or mobile working platforms. The combination of dimensions, robust design, measurement range and price-ratio makes the FDMK88 unique. Therefore, it has the potential to reduce production costs significantly.

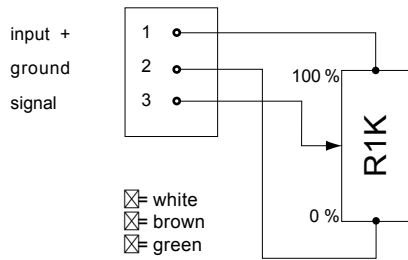


### ■ Technical data

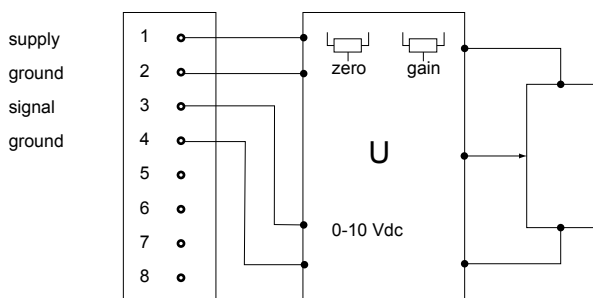
Model		FDMK88-2300	FDMK88-3500	FDMK88-5000
Output			P/U/I	
Sensor element			potentiometer	
Measuring range	mm	2300	3500	5000
Linearity	% FSO	±0.15	±0.3	±0.4
Resolution/sensitivity			quasi infinite	
Temperature range	°C		-20 to 80°C	
Material	housing		plastic, PA 6 GF 30	
	draw wire		coated polyamid stainless steel	
	protection cap		aluminium	
Wire diameter	mm		ø 0.45 Wire	
mounting			wire clip	
Sensor mounting		mounting holes resp. mounting grooves on the sensor housing		
Wire retraction force (min)	N		4	
Wire extension force (max)	N		9	
Wire acceleration (max)	m/s <sup>2</sup>		70	
Protection class			IP 65	
Electrical connection		integrated cable, radial, 3m length		
Weight (with cable)	g		400-430	

FSO = Full Scale Output

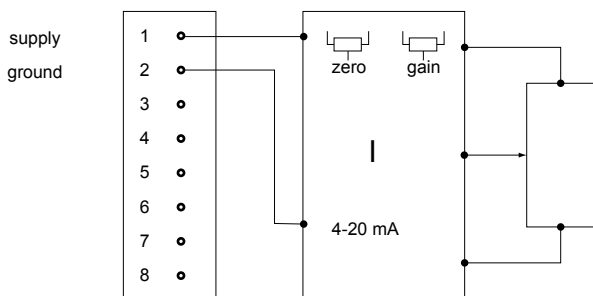
## ■ Output specifications analog



Potentiometric output (P)	
Supply voltage	max. 32VDC at 1kOhm / 1
Wmax Resistance	1kOhm ±10% (potentiometer)
Temperature coefficient	±0.0025% FSO/°C
Sensitivity	depends on measuring range individually shown on test report



Voltage output (U)	
Supply voltage	14 ... 27VDC (non stabilized)
Current consumption	30mA max
Output voltage	0 ... 10VDC Option 0 ... 5 / ±5V
Load impedance	>5kOhm
Signal noise	0.5mV <sub>eff</sub>
Temperature coefficient	±0.005% FSO/°C
Electromagnetic compatibility (EMC)	EN 50081-2
	EN 50082-2
Adjustment ranges	
Zero	±20 %FSO
Sensitivity	±20 %



Current Output (I)	
Supply voltage	14 ... 27VDC (non stabilized)
Current consumption	35mA max
Output current	4 ... 20mA
Load	<600Ohm
Signal noise	<1.6µA <sub>eff</sub>
Temperature coefficient	±0.01% FSO/°C
Electromagnetic compatibility (EMC)	EN 50081-2
	EN 50082-2
Adjustment ranges	
Zero	±18% FSO
Sensitivity	±15%

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