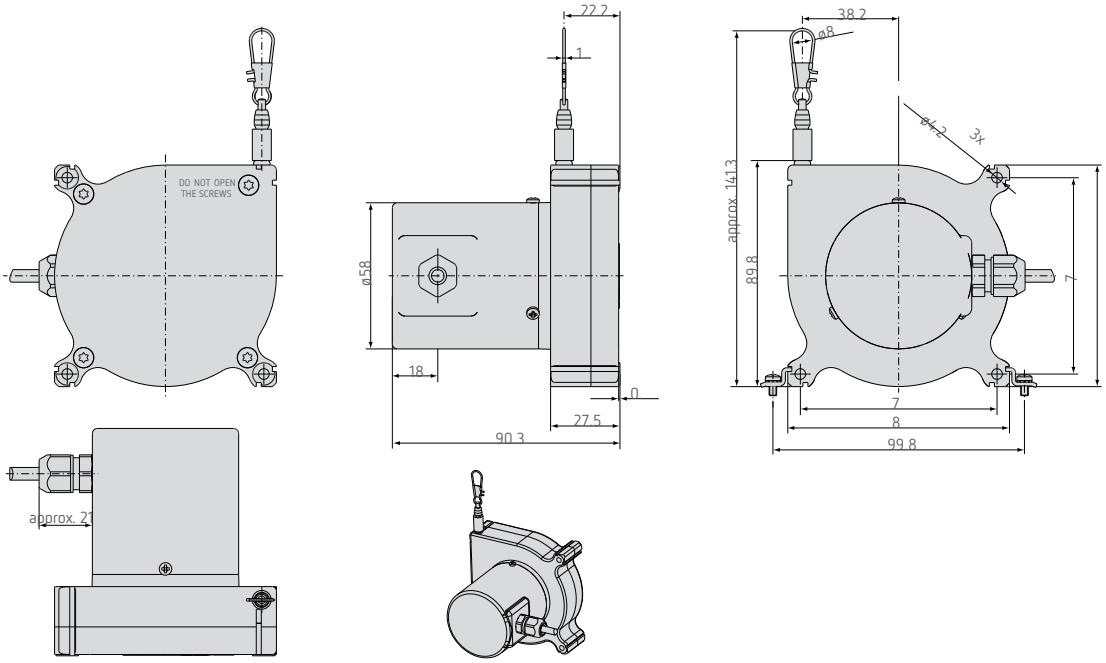
mm FDMK88 analog

Description

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	
	housing		plastic, PA 6 GF 30	
Material	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/s²		70	
Protection class			IP 65	
Electrical connection			integrated cable, radial, 3m length	
Weight (with cable)	g		400-430	

FSO = Full Scale Output

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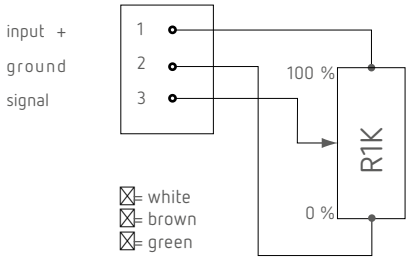
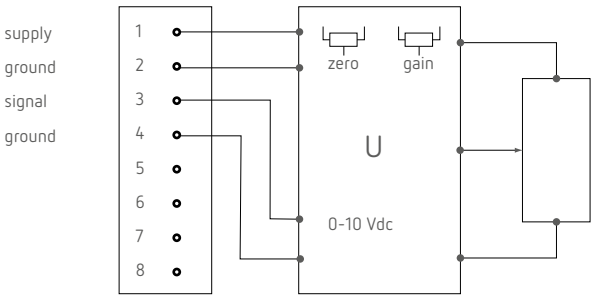
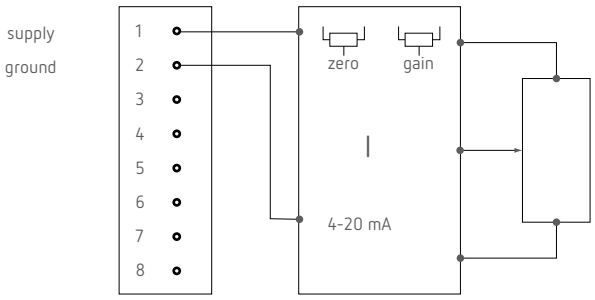
Output specifications analog



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 impendance	>5kOhm
Signal noise	0.5mV$_{eff}$
Temperature coefficient	±0.005% FSO/°C
Electromagnetic compatibiity (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$_{eff}$
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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