

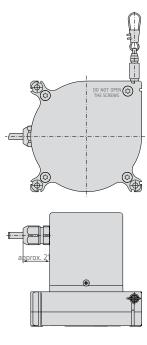
mm FDMK88 analog

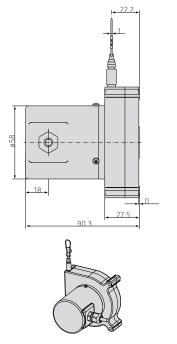


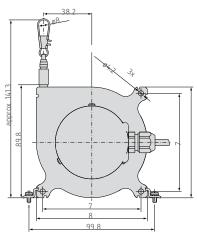
SENSORS & CONTROLS

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.





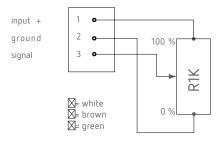


Technical data

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 ho	les resp. mounting grooves on the s	sensor housing
Wire retraction force (min)	Ν		4	
Wire extension force (max)	Ν		9	
Wire acceleration (max)	m / s²		70	
Protection class			IP 65	
Electrical connection			integrated cable, radial, 3m lengt	h
Weight (with cable)	g		400-430	
FSO = Full Scale Output				



Output specifications analog

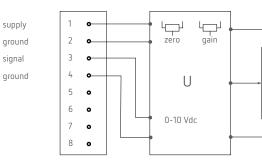


Potentiometric output (P)				
Supply voltage	max. 32VDC at 1k0hm / 1 Wmax			
Resistance	1k0hm ±10% (potentiometer)			
Temperature coefficient	±0.0025% FS0/°C			
Sensitivity	depends on measuring range individually shown on test report			

Voltage output (U)

Supply voltage

14 ... 27VDC (non stabilized)



Current consumption	30mA max				
	0 10VDC Option 0				
Output voltage	5 / ±5V				
Load impendance	>5k0hm				
Signal noise	0.5mV _{eff}				
Temperature coefficient	±0.005% FS0/°C				
Electromagnetic	EN 50081-2				
compatibiity (EMC)	EN 50082-2				
Adjustment ranges					
Zero	±20 %FS0				
Sensitivity	±20 %				

Current Output (I)					
Supply voltage	14 27VDC (non stabilized)				
Current consumption	35mA max				
Output current	4 20mA				
Load	<6000hm				
Signal noise	<1.6µA _{eff}				
Temperature coefficient	±0.01% FSO/°C				
Electromagnetic compatibility	EN 50081-2 EN				
(EMC)	50082-2				
Adjustment ranges					
Zero	±18% FS0				
Sensitivity	±15%				

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The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.

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4-20 mA

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gain

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