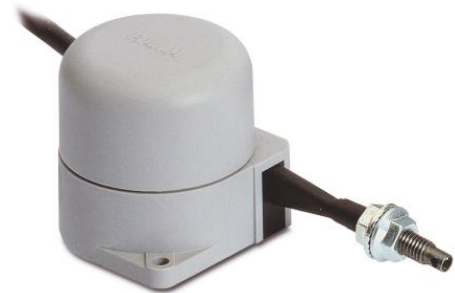


Datasheet

- Easy and powerful measurement system in combination with pulse counters or display
- To linear and angular movements as Tool automatic, wooden, marble glass processing machines, cylinder, hydraulic or pneumatic tire, effective stroke, trapdoors, etc.
- Version
 - EF: optical incremental encoder
 - EFM: magnetic incremental encoder
- Easy mounting
- Impact resistant and self-extinguishing housing
- Resistance to solvents, gasoline, oil and grease



Mechanical Data

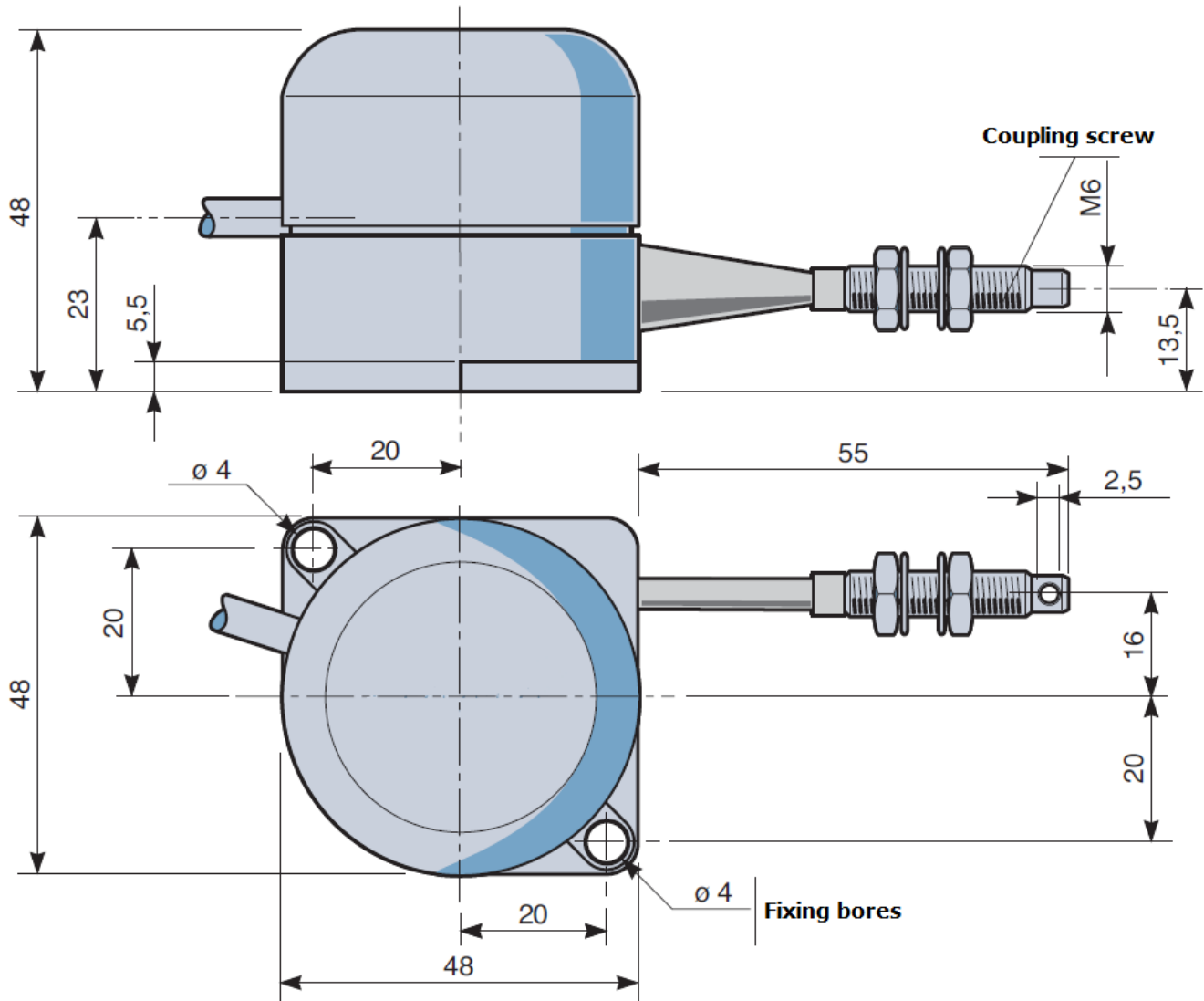
Version	EF500 / EFM500	EF700 / EFM700	EF900 / EFM900
Measuring Length [mm]	0 - 500	0 - 700	0 - 900
Available Stroke [mm]	520	720	920
Repeatability with Quadrupled Count	±0,1 mm	±0,02 mm	
Resolution			
EF	256 impulse pro 102 mm		1.024 flank-vault
EFM	2.500 impulse pro 100 mm		10.000 flank-vault
Color	gray RAL 7004		
Wight	180 g		
Speed	<0,5 m/s		
Wire Strength	< ~2,4 N		
Number of Cycles	400.000		
Operating Temperature	-10 to 70°C		
Relative Humidity	10 to 90 %		
IP-Rating	IP54		

Electrical Data

Power Supply	10-30 VDC	<60 mA / Push Pull
Power Supply Output	10-30 VDC	(5VDC) / Line Driver
Output Current	<20 mA	
Output Signal	Push-Pull	
Line Driver	TTL-LD1 10-30Vdc	out 5Vdc
	TTL-LD2 5Vdc	out 5Vdc
	TTL-LD3 10-30Vdc	out 10-30Vdc;
EFM	0 output every 5 mm wire pull	
Electrical Connection		
Cable Length [m]	2,5,10	
Electromagnetic compatibility	2004/108/CE	


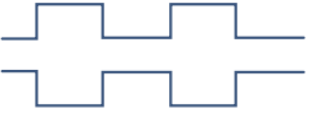

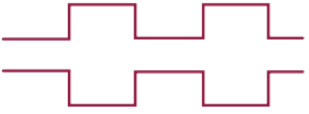

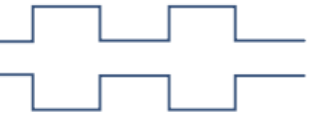




Datasheet

Dimension



Datasheet

Pin Assignment

Push-Pull		Line-Driver	
EF500 - EF700 - EF900			
brown	10-30 VDC	brown	10-30 VDC (5VDC)
yellow	 A	yellow orange	 A /A
white	 B	white violet	 B /B
green shield	GND not linked	green shield	GND not linked
EFM500 - EFM700 - EFM900			
brown	10-30 VDC	brown	10-30 VDC
yellow	 A	yellow orange	 A /A
white	 B	white violet	 B /B
gray (zero)	 Z	gray black (zero)	 Z /Z
green shield	GND not linked	green shield	GND not linked

Ordering Example

Type	EF	-	500	-	PP	-	2m
EF							
EFM							
Measuring Length							
500							
700							
900							
Output Signal							
PP	= PP						
TTL-LD1	= 10-30Vdc	out 5Vdc					
TTL-LD2	= 5Vdc	out 5Vdc					
TTL-LD3	= 10-30Vdc	out 10-30Vdc;					
Cable Length							
2m							
5m							
10m							