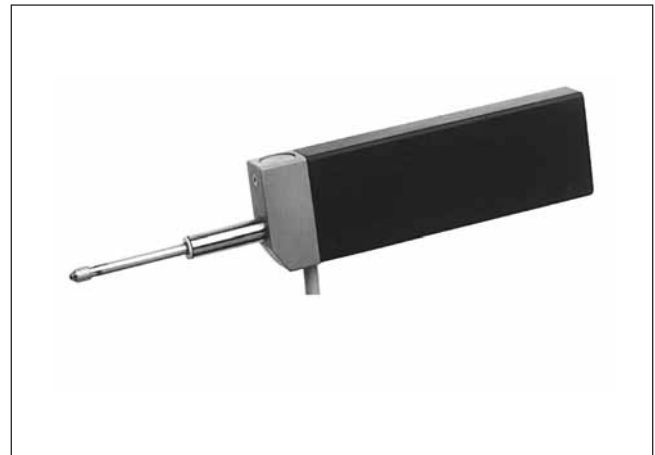
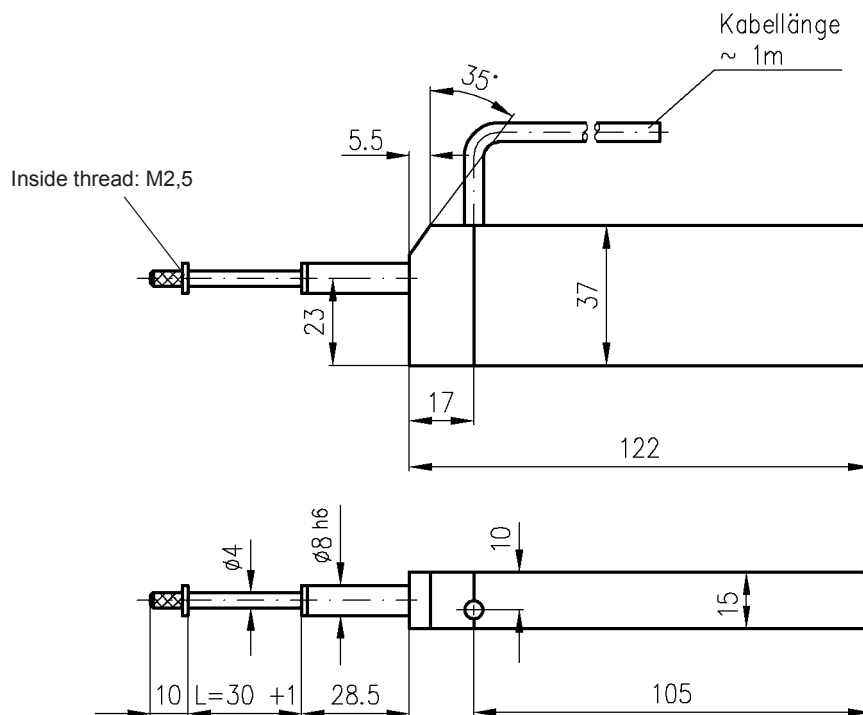


- Stroke 30 mm
- Resolution 1, 2, 5 or 10 μm
- Digital output signals

The MS30 ist an incremental transducer for measurment strokes of 30mm. By optical scanning a glass scale the position is detected contactless with high resolution up to 1 μm . To reach high precision the shaft is guided in a special ball bearing cage. You can connect the rod with the M2,5 inside thread or use the sensor in push bottom operation with inside spring and roboust probe tip.



Drawing



Indication:

The MS30 sensor is mounted preferably with the $\text{\O}8\text{mm h6}$ shaft.

Electrical features		
Power supply	[V DC]	5 +/-5%
max. current	[mA]	150
Output signal		with Linedriver: Low <0,5 V (I = 20 mA), High >2,5 V (I = 20mA) without Linedriver: Low <0,5 V (I = 20 mA), High >2,5 V (I = 1mA)

Mechanical Features					
Stroke	[mm]	30	Max. speed	[m/s]	0,5
Scale of glass	[µm]	4/8/20/40	Spring force	[N]	0,4...0,8
Resolution	[µm]	1/2/5/10	Cable length (standard)	[m]	1
Accuracy	[µm / 50 mm]	±1	Weight	[g]	200
Bearing of rod		cage ball bearing	Housing		sheet steel

Environment conditions		
Operating temperature	[°C]	0...+45
Storage temperature	[°C]	-10...+60
Max. relative humidity		90%, not condensing
Protection class		IP40

Pin Outs			Signal in push direction
without Linedriver (TTL)			
PIN	Colour	Function	
1	white	canal A	
2	yellow	canal B	
3	brown	supply +5 V	
4	green	supply 0 V	
	shield	intern with 0 V	
with Linedriver			
PIN	Colour	Function	
1	white	canal A	
2	yellow	canal B	
3	brown	supply +5 V	
4	green	supply 0 V	
5	grey	canal /A	
6	pink	canal /B	
7	N.C.	N.C.	
	shield	intern with 0 V	

Options	
- cablelength (1m Standard)	- resolution 1, 2, 5 or 10 µm
- TTL or Linedriver (LD)	- cable connector assembling in the end of the cable

Order Code		
Series	Resolution	Output signal
MS30	0	LD
	1 = 1 µm 2 = 2 µm 5 = 5 µm 0 = 10 µm	LD = with Linedriver TTL = without Linedr.
Example of order: Series MS30 with 10µm resolution and Linedriver output signal		

These datasheet specifications can not consider the special customer demands in his application. Any modification may affect the specification of our equipment.

