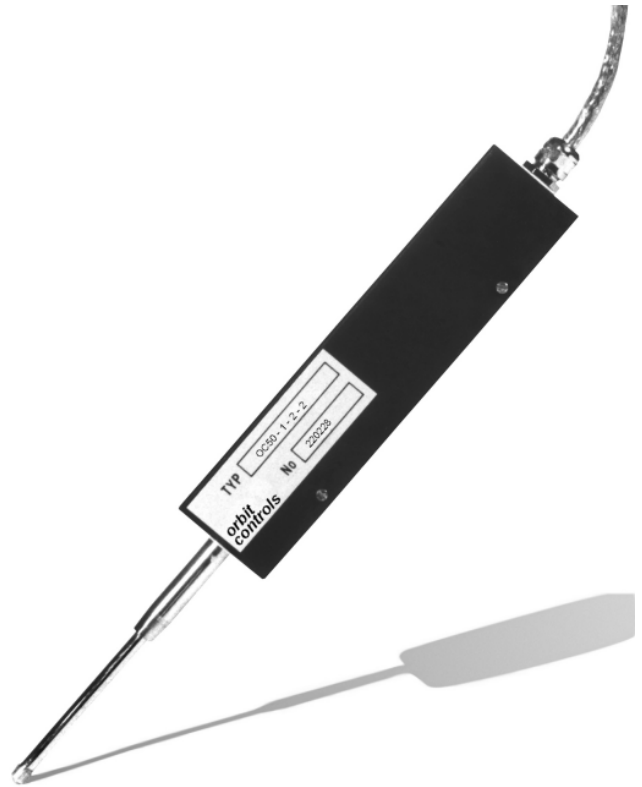- ✓ **30 or 50mm Measuring Ranges**
- ✓ **5µm or 10µm Increments**
- ✓ **5 digit Display 0 - 50.000**
- ✓ **Analog Output 0-10V and 0/4-20mA**
- ✓ **Serial Data Ports RS232, RS485**
- ✓ **Two Set Point Relay**
- ✓ **Supply 230VAC or 24VDC**

OC 30 and OC 50 are high precision optical transducers for direct precision measurements of mechanical displacement in control and measuring applications. The transducers have high accuracy and repeatibility, reliability and fast responce. The moving rod is suspended by a spring which returns the rod into the initial position.

The displacement transducers OC30 and OC50 can be directly connected to Orbit Controls incremental controller OC7171-50. The digital display increments in 5 µm or 10 µm steps and can be set to zero with the front keyboard to tare the initial readings. With the same keyboard the tara can also be canceled causing the display to return to the original reading.

Analog Outputs 0-10V and 0/4-20mA as well as two Serial Data Ports RS232 and RS485 are available for further data aquisition purposses.

Two Set Point Relay can be programmed within the entire display range. They are activated as soon as the display exceeds the selected value.
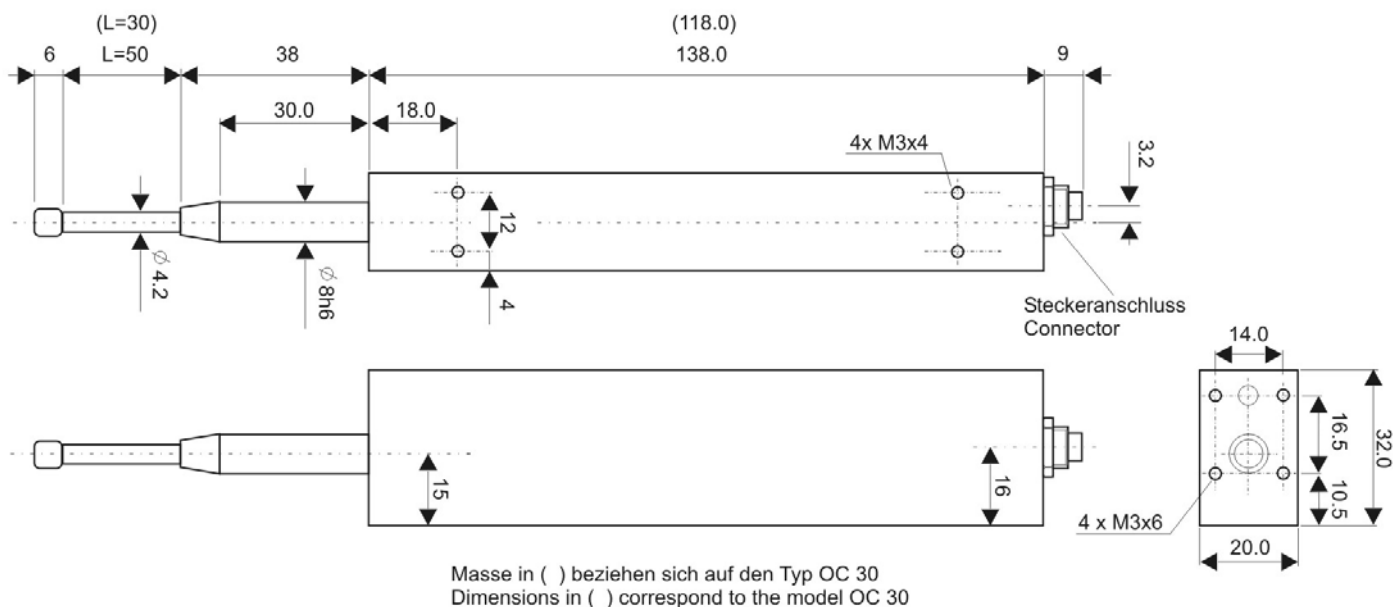
SPECIFICATIONS

Range:	30mm (OC30) or 50mm (OC50)
Increments:	5 µm or 10 µm
Speed:	2m/Sek. max. with 10 µm
	1m/Sek. max. with 5 µm
Detached top:	Thread M2.5
Detached force:	Spring with 0.8N ± 0.2N
Output:	TTL Quadrature Signals A,B or
	Line Driver ± 20mA
Frequency:	100kHz max.
Supply:	5V ±5%, 50mA max.
Weight:	20g measuring rod
	200g whole transducer
Dimensions:	20 x 32 x 176 mm (WxHxL)
Terminals:	1m cable or a connector
Environment:	Working temperature 0-60 °C, relative humidity 95% max.

Process Controller OC7171

DIMENSIONS

Masse in ( ) beziehen sich auf den Typ OC 30
Dimensions in ( ) correspond to the model OC 30

TERMINALS

Connector Pin	Cable colors	OC30.x1x and OC30.x3x OC50.x1x and OC50.x3x	OC30.x2x and OC30.x4x OC50.x2x and OC50.x4x
1	white	signal A	
2	yellow	signal B	
3	brown	+ 5V supply	
4	green	GND supply	
5	grey	N.C.	signal A inverted
6	rosa	N.C.	signal B inverted
	screen	screen	

TO ORDER	OC 30	-	X	-	X	-	X
	OC 50	-	X	-	X	-	X

Return spring	without	0	
	with	1	
Terminals	TTL, 1m cabel	1	
	Line Driver, 1 m cabel	2	
	TTL, connector	3	
	Line Driver, connector	4	
Resolution	10µm		1
	5µm		2