Millimar P2004 MB / P2004 TB / P2004 UB / P2004 FB

Inductive Probe

IP 64

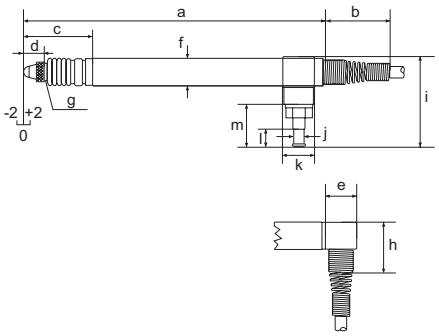
FEATURES

- Models with or without compressed-air (pneumatic) lifter or vacuum retraction
- Measuring pin mounted in ball bearing guide
- High linearity over the entire measuring range
- Excellent electromagnetic shielding (EMC)
- All probes can be easily converted from axial to radial by mounting a slip-on cap (included)
- Chemical resistance data: resistant to oil, gasoline, water and aliphatics. Moderately resistant to acids, bases, solvents and ozone
- **Package contains:** instruction manual, cap for radial cable output, spanner for preliminary stroke setting

TECHNICAL DATA

Order no.		5323030	5323031	5323033	5323034
Product type		P2004 MB	P2004 TB	P2004 UB	P2004 FB
Measuring range	mm	± 2			
Measuring range	inch	± .079"			
Distance to upper stop	mm...mm	+2.2 . . . 4.4			
Distance to upper stop	inch...inch	+ .09 ... .173"			
Distance to lower stop	mm...mm	–2.2 . . . 0			
Distance to lower stop	inch...inch	–.09 ... 0"			
Lifter / retraction		Compressed air retraction (max. 1 bar)			
Measuring force	N	Depending upon air pressure			
Sensitivity deviation	%	0.3			
Repeatability f_w	µm	0.1			
Repeatability f_w	inch	4 µ"			
Hysteresis f_u	µm	0.5			
Hysteresis f_u	inch	20 µ"			
Linearity deviation within +/–0.5 mm	µm	0.4			
Linearity deviation within +/–.020"	inch	16 µ"			
Linearity deviation within +/–1.0 mm	µm	1.5			
Linearity deviation within +/–.039"	inch	60 µ"			
Linearity deviation within +/–2.0 mm	µm	3			
Linearity deviation within +/–.079"	inch	120 µ"			
IP protection category		IP 64			
Cable length	m	2.5			
Temperature coefficient	µm/°C	0.15			
Compatibility		Mahr VLDT	Tesa	Marposs	Federal

Order no.	g	Dimension f	j	k	l	m	a	b	c	d	e	f	h	i
		inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
5323030	M 2.5		3.6	9	8.3	12.5	88.7	28	21.3	6	9.2	8	14	26.5
5323031	M 2.5		3.6	9	8.3	12.5	88.7	28	21.3	6	9.2	8	14	26.5
5323033	M 2.5		3.6	9	8.3	12.5	88.7	28	21.3	6	9.2	8	14	26.5
5323034	4/48 UNF	0.375	3.6	9	8.3	12.5	88.7	28	21.3	6	9.2		14	26.5



Millimar P2010 M

Inductive Probe

IP 64

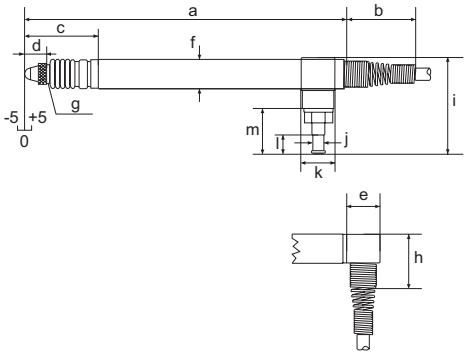
FEATURES

- Models with or without compressed air (pneumatic) lifter or vacuum retraction
- Measuring pin mounted in ball-bearing guide
- High linearity over the entire measuring range
- Excellent electromagnetic shielding (EMC)
- All probes can be easily converted from axial to radial by mounting a slip-on cap (included)
- Chemical resistance data: resistant to oil, gasoline, water and aliphatics. Moderately resistant to acids, bases, solvents and ozone
- **Package contains:** instruction manual, cap for radial cable output, spanner for preliminary stroke setting

TECHNICAL DATA

Order no.		5324010
Product type		P2010 M
Measuring range	mm	± 5
Measuring range	inch	± .197"
Distance to upper stop	mm...mm	+5.3
Distance to upper stop	inch...inch	+ .20"
Distance to lower stop	mm...mm	–5.3
Distance to lower stop	inch...inch	–.20"
Lifter / retraction		Standard model
Measuring force	N	0.75 N +/–0.15N
Increase in measuring force	N/mm	0.1 N/mm
Sensitivity deviation	%	0.3
Repeatability f_w	µm	0.2
Repeatability f_w	inch	8 µ"
Hysteresis f_u	µm	1
Hysteresis f_u	inch	40 µ"
Linearity deviation within +/–2.0 mm	µm	4
Linearity deviation within +/–.079"	inch	160 µ"
Linearity deviation within +/–5.0 mm	µm	20
Linearity deviation within +/–.197"	inch	200 µ"
IP protection category		IP 64
Cable length	m	2.5
Temperature coefficient	µm/°C	0.15
Compatibility		Mahr

Order no.	g	a	b	c	d	e	f	h
		mm	mm	mm	mm	mm	mm	mm
5324010	M 2.5	125.7	28	34	6	9.2	8	14



Millimar P2010 MA / P2010 TA / P2010 UA / P2010 FA

Inductive Probe

IP 64

FEATURES

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- All probes can be easily converted from axial to radial by mounting a slip-on cap (included)
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- **Package contains:** instruction manual, cap for radial cable output, spanner for preliminary stroke setting

TECHNICAL DATA

Order no.		5324020	5324021	5324023	5324024
Product type		P2010 MA	P2010 TA	P2010 UA	P2010 FA
Measuring range	mm	± 5			
Measuring range	inch	± .197"			
Distance to upper stop	mm...mm	+5.3			
Distance to upper stop	inch...inch	+ .20"			
Distance to lower stop	mm...mm	–5.3			
Distance to lower stop	inch...inch	–.20"			
Lifter / retraction		Vacuum lifter			
Measuring force	N	0.75 N +/–0.15 N			
Increase in measuring force	N/mm	0.1 N/mm			
Sensitivity deviation	%	0.3			
Repeatability f_w	µm	0.2			
Repeatability f_w	inch	8 µ"			
Hysteresis f_u	µm	1			
Hysteresis f_u	inch	40 µ"			
Linearity deviation within +/–2.0 mm	µm	4			
Linearity deviation within +/–.079"	inch	160 µ"			
Linearity deviation within +/–5.0 mm	µm	20			
Linearity deviation within +/–.197"	inch	200 µ"			
IP protection category		IP 64			
Cable length	m	2.5			
Temperature coefficient	µm/°C	0.15			
Compatibility		Mahr VLDT	Tesa	Marposs	Federal

Order no.	g	Dimension f	j	k	l	m	a	b	c	d	e	f	h	i
		inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
5324020	M 2.5		3.6	9	8.3	12.5	125.7	28	34	6	9.2	8	14	26.5
5324021	M 2.5		3.6	9	8.3	12.5	125.7	28	34	6	9.2	8	14	26.5
5324023	M 2.5		3.6	9	8.3	12.5	125.7	28	34	6	9.2	8	14	26.5
5324024	4/48 UNF	0.375	3.6	9	8.3	12.5	125.7	28	34	6	9.2		14	26.5