

POSITION DISPLAYS

DIGITAL POSITION DISPLAYS
LINEAR ENCODERS
MEASURING INSTRUMENTS



DRO 5 Digital 3-axis position display



DRO 5 Article no. 3383975

- › Digital 3-axis position display for milling machines (X - Y - Z) and for lathes (X, Z, Z₀)
- › For measuring positions
- › Rev counter
- › Three incremental inputs
- › Four-line LCD display
- › User-friendly menu navigation
- › Rugged aluminium housing
- › Programming from the front
- › Dimensions L x W x H: 98 x 65 x 134 mm

Including

- › Speed sensor cable length 5 metres
- › 3 units magnetic sensors without magnetic strip
- › Power supply cable length 6 metres
- › Magnetic plate

Accessories	Article no.
Magnetic strip length 1 100 mm	3383978
Magnetic strip length 2 000 mm	3383979
Magnetic strip per metre	3383980
Factory assembly	
Magnetic strip three axes	9000420
Speed sensor	9000421
Assembly kit	
TU 3008	3383985
MH 22V	3383990

The digital position displays for three axes with speed display support versatile use and are a genuine aid to the user, as they substantially boost precision and productivity.

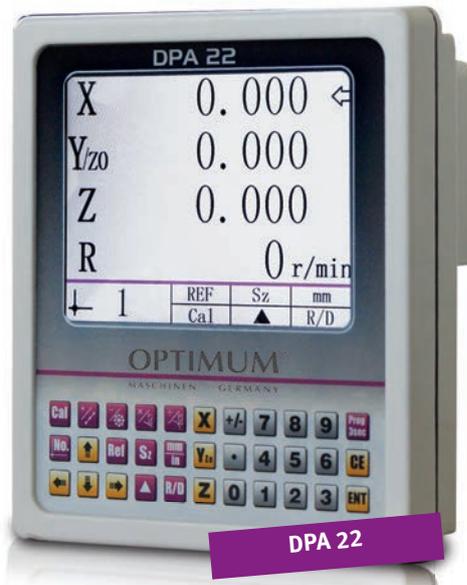
Differences:

DPA 21

- ▶ LED display

DPA 22

- ▶ LCD display
- ▶ High-contrast display
- ▶ Simplified menu navigation
- ▶ Graphical input for cycle programming



Digital position display	Article no.
DPA 21 (LED display)	3384020
DPA 22 (LCD display)	3384022
<ul style="list-style-type: none"> › User-friendly membrane keyboard, splash water protected, sealed and dazzle free › Switchable for milling machine and lathe, freely selectable input signal (sinus/square), e.g. usable for glass scales and/or magnetic strip system › Greater operation accuracy › Clear reduction of manufacturing times › Reduction of error quota › X, Y/Z0, Z axis each with 8-digit display › Sensor supplied for acquiring spindle speeds › Three measuring inputs can be evaluated with seven correction memory stores each for tools › Dimensions L x W x H: 230 x 80 x 260 mm . Weight: 2 kg 	

Possible functions

- › Calculator, speed display, axis coupling (total Z), sub-D connector sockets, absolute/incremental operation, conversion inch/metric thread, bolt circle computation (chain dimension), coordinates in circle (pitch circle), drill holes in circle (pitch circle), measured values switchable radius/diameter, Zero reset data default, self diagnostics, reference point, linear error correction, 99 tool memory

Scope of delivery

- › Speed sensor
- › Holder
- › Power supply 24 V

Magnetic strip

- › Magnetic strip for assembly on machines that do not have enough space for linear encoders
- › Connector 9-pin

Ø 1 100 mm long	3383978
Ø 2 000 mm long	3383979
Active scanning head	3383934



Linear encoders	Article no.
<ul style="list-style-type: none"> › Fully encapsulated measuring systems with high precision glass scale › Resolution 5 µm › Accuracy ± 0.003 mm › Scanning carriage guided by miniature ball bearings and connected to the mounting foot via coupling › Protected against dust, chips and splash water by a rubber lip › Flexible metal protection hose › Connecting cable three metres; four metres as of ML 620 › Without assembly 	

ML 80 mm	3384108
ML 100 mm	3384110
ML 120 mm	3384112
ML 170 mm	3384117
ML 220 mm	3384122
ML 270 mm	3384127
ML 320 mm	3384132
ML 370 mm	3384137
ML 420 mm	3384142
ML 470 mm	3384147
ML 520 mm	3384152
ML 570 mm	3384157
ML 620 mm	3384162
ML 670 mm	3384167
ML 720 mm	3384172
ML 770 mm	3384177
ML 820 mm	3384182
ML 870 mm	3384187
ML 920 mm	3384192
ML 970 mm	3384197
ML 1 020 mm	3384202
ML 1 250 mm	3384225
ML 1 400 mm	3384240
ML 1 520 mm	3384252
ML 1 670 mm	3384267
ML 1 940 mm	3384294
ML 2 010 mm	3384295
ML 3 000 mm	3384300
Factory assembly ML	9000410

- › per linear encoder

1) When installing the linear encoders, adjustments may have to be made to the machine

Universal useable digital position displays for two or three axes, with speed display, for guaranteed excellent results on machines to improve accuracy

Digital position display	Article no.
DPA 31-2 for two axes	3384030
DPA 31-3 for three axes	3384031
<ul style="list-style-type: none"> › LED display › User-friendly membrane keyboard, splash water protected, sealed and dazzle free › Switchable for milling machine and lathe › Greater operation accuracy › Clear reduction of manufacturing times › Reduction of error quota › 8-digit display › Sensor supplied for acquiring spindle speeds › Three measuring inputs can be evaluated with seven correction memory stores each for tools › Dimensions L x W x H: 230 x 80 x 260 mm › Weight: 2 kg 	



MSS31 linear encoders	Article no.
<ul style="list-style-type: none"> › The electronic measuring components of the linear encoders are protected and sealed in the housing › Provides accurate and reliable measurement results even if the measuring system is operated in oil or coolant › Tolerant towards vibration and magnetic interference › Without assembly 	
51 mm (length 311 mm)	3384405
102 mm (length 362 mm)	3384410
152 mm (length 412 mm)	3384415
203 mm (length 463 mm)	3384417
254 mm (length 514 mm)	3384419
305 mm (length 565 mm)	3384421
356 mm (length 616 mm)	3384422
406 mm (length 666 mm)	3384423
457 mm (length 717 mm)	3384424
506 mm (length 766 mm)	3384425
559 mm (length 819 mm)	3384426
610 mm (length 870 mm)	3384427
660 mm (length 920 mm)	3384428
711 mm (length 971 mm)	3384429
762 mm (length 1022 mm)	3384430
813 mm (length 1073 mm)	3384431
864 mm (length 1124 mm)	3384432
914 mm (length 1174 mm)	3384433
965 mm (length 1225 mm)	3384434
1016 mm (length 1276 mm)	3384435
1118 mm (length 1378 mm)	3384437
1168 mm (length 1428 mm)	3384438
1219 mm (length 1479 mm)	3384439
1270 mm (length 1530 mm)	3384440
1321 mm (length 1581 mm)	3384441
1372 mm (length 1632 mm)	3384442
1422 mm (length 1882 mm)	3384443

1473 mm (length 1933 mm)	3384444
1524 mm (length 1784 mm)	3384445
1626 mm (length 1886 mm)	3384446
1727 mm (length 1987 mm)	3384447
1829 mm (length 2089 mm)	3384448
1930 mm (length 2190 mm)	3384449
2032 mm (length 2292 mm)	3384450
2134 mm (length 2394 mm)	3384451
2235 mm (length 2495 mm)	3384452
2337 mm (length 2597 mm)	3384453
2438 mm (length 2698 mm)	3384454
2540 mm (length 2800 mm)	3384455
2642 mm (length 2902 mm)	3384456
2743 mm (length 3003 mm)	3384457
2845 mm (length 3105 mm)	3384458
2946 mm (length 3206 mm)	3384459
3048 mm (length 3248 mm)	3384460

Accessories	Article no.
Extension cable 1 metres	3384040
Active scanning head	3384035



Magnetic strip	Article no.
<ul style="list-style-type: none"> › Magnetic strip for assembly machines that do not have enough space for magnetic scales › Connector 9-pin 	
Ø 1 100 mm long	3383978
Ø 2 000 mm long	3383979

1) When installing the linear encoders, adjustments may have to be made to the machine

