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| Exposed Linear Encoders  lgg_offen_vorschau_13699.jpg |

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| Exposed linear encoders are designed for use on machines and installations that require especially high accuracy of the measured value.  Typical applications include:   Measuring and production equipment in the semiconductor industry   PCB assembly machines   Ultra-precision machines   High-accuracy machine tools   Measuring machines and comparators, measuring microscopes, and other precision measuring devices   Direct drives |  | |  | | --- | |  | |

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| Design Types |
| |  |  |  |  | | --- | --- | --- | --- | | **Series** | **Main features** | **Accuracy grade** | **Measuring lengths** | | [**LIP 300**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18365) |  for very high accuracy   scale of glass ceramic or glass   interferential scanning principle for small signal periods | ± 0.5 µm | 70 to 270 mm | | [**LIP 400**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18395) |  for very high accuracy   scale of glass ceramic or glass   interferential scanning principle for small signal periods | ± 1 µm | 70 to 420 mm | | [**LIP 500**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18394) |  for very high accuracy   scale of glass ceramic or glass   interferential scanning principle for small signal periods | ± 1 µm | 70 to 1440 mm | | [**LIF**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18364) |  for very high accuracy   with PRECIMET adhesive film   interferential scanning principle for small signal periods   limit switches and homing track | ± 3 µm | 70 to 1020 mm | | [**LIDA 200**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18355) |  for high traversing speeds and large measuring lengths   steel scale tape drawn into aluminium extrusion or to mounting surface | ± 30 µm | to 10 000 mm | | [**LIDA 400**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18354) |  for high traversing speeds and large measuring lengths   steel scale tape drawn into aluminium extrusion or to mounting surface   limit switches | ± 5 µm  ± 15 µm | 140 to 30 040 mm    240 to 6040 mm | | [**LIDA 500**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18368) |  for very limited installation space   small scanning head   simple installation | ± 5 µm | 70 to 1020 mm | | [**PP**](http://www.heidenhain.com/index.php?WCMSGroup_479_177=582&WCMSGroup_2238_177=479&WCMSGroup_582_177=591&WCMSArticle_Template_45_10985=HeidenhainProduktDB&op=catview&search=category&CS_UID=18366) |  for two-coordinate measurement   common scanning point for both coordinates   interferential scanning principle for small signal periods | ± 2 µm | 68 mm x 68 mm | |