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| **DESCRIPTION** | **TYPE** |
|  | [**EQI 1325-32**](http://www.heidenhain.us/enews-pro/pdf/208922-2E_Encoders-for-Servo-Drives.pdf) |
| **Compact absolute rotary taper shaft encoder with integral bearing and mounted stator coupling with 1Vpp and EnDat output and IP 40 protection**  **Incremental signals - 1 VPP  Line count - 512 or 2048  Data interface - EnDat  Resolvable revolutions - 4096 (12bits) Absolute position values - 8192 (13 bits)  Power supply - 5V** | [**EQN 1325-2048**](http://www.atechauthority.com/pdf/Rotary_Prod.pdf#page=) |
| **Compact absolute rotary taper shaft encoder with integral bearing and mounted stator coupling with 1Vpp and**  **EnDat output and IP 40 protection**  **Incremental signals - 1 VPP** **Line count - 512 or 2048** **Data interface - EnDat** **Resolvable revolutions - 4096 (12bits)** **Absolute position values - 8192 (13 bits)** **Power supply - 5V** | [**EQN 1325-512**](http://www.atechauthority.com/pdf/Rotary_Prod.pdf#page=) |
| **The encoder ERN 1387 is an incremental-type encoder. Incremental signals are sin-cos signals**  **Incremental signals - 1 Vpp  Line count - 2048 Commutation signals - 1 sine and 1 cosine signal with 1 period per revilution (Z1-track) Power supply - 5V Operating Temperature - Max. 120C** | [**ERN 1387-2048**](http://www.heidenhain.de/de_EN/php/documentation-information/brochures/popup/media/media/file/view/file-0699/file.pdf) |
| **Compact incremental rotary encoder with integral bearing and mounted stator coupling with 10v to 30v HTL**  **Quadrature output and IP 64 protection**  **Incremental signals - 10v to 30v HTL Quadrature  Line count - 250 to 5000 Power supply - 10v to 30v Operating Temperature - Max. 100C** | [**ERN 430**](http://www.atechauthority.com/pdf/Rotary_Encoder_Nov_2011.pdf#page=1) |
| **Singleturn**  **13bit to 10 bits position values per rev., additional incremental sine-wave signals** | [**ROC 410**](http://saba.kntu.ac.ir/eecd/ecourses/instrumentation/heidenhain%20increamental%20encoder%20cataloge.pdf) |
|  | [**ROD 320**](http://www.encoder.com/literature/datasheet-dr735.pdf) |
|  | **ROD 323** |
| **Industrial standard incremental rotary encoder with integral bearing and separete chaft coupling with 5v TTL**  **Quadrature output and clamping flange**  **Output signals - 5v TTL Quadrature  Line count - 50 to 5000 Mech. perm. Speed - 12000 rpm  Power supply - 5 V  Scanning frequency - Max. 300 kHz  Shaft - Stub shaft dia. 10 mm  Protection - IP 64 (EN 60529)** | [**ROD 420**](http://www.atechauthority.com/pdf/Rotary_Prod.pdf#page=) |
| **Industrial standard incremental rotary encoder with integral bearing and separete chaft coupling with 5v TTL Quadrature output and synchro flange**  **Output signals - 5v TTL Quadrature  Line count - 50 to 5000 Mech. perm. Speed - 12000 rpm  Power supply - 5 V  Scanning frequency - Max. 300 kHz  Shaft - Stub shaft dia. 6 mm  Protection - IP 64 (EN 60529)** | [**ROD 426**](http://www.atechauthority.com/pdf/Rotary_Prod.pdf#page=) |
| **Industrial standard incremental rotary encoder with integral bearing and separete chaft coupling with 5v TTL Quadrature output and synchro flange**  **Output signals - 5v TTL Quadrature  Line count - 50 to 5000 Mech. perm. Speed - 12000 rpm  Power supply - 5 V  Scanning frequency - Max. 300 kHz  Shaft - Stub shaft dia. 6 mm  Protection - IP 64 (EN 60529)** | [**ROD 428**](http://www.atechauthority.com/pdf/Rotary_Prod.pdf#page=) |
|  | **ROD 431** |
| **Industrial standard incremental rotary encoder with integral bearing and separete chaft coupling with 10v to 30v HTL Quadrature output and synchro flange**  **Output signals - 10v to 30v HTL Quadrature  Line count - 50 to 5000 Mech. perm. Speed - 12000 rpm  Power supply - 10v to 30v Scanning frequency - Max. 300 kHz  Shaft - Stub shaft dia. 6 mm  Protection - IP 64 (EN 60529)** | [**ROD 436**](http://www.atechauthority.com/pdf/Rotary_Prod.pdf#page=) |
| **Industrial standard incremental rotary encoder with integral bearing and separete chaft coupling with 11uApp output and synchro flange**  **Output signals - 11 uApp Line count - 50 to 5000 Mech. perm. Speed - 12000 rpm  Power supply - 5 V  Cutoff frequency - >= 160 kHz  Shaft - Stub shaft dia. 6 mm  Protection - IP 64 (EN 60529)** | [**ROD 456**](http://www.atechauthority.com/pdf/Rotary_Prod.pdf#page=) |
| **Industrial standard incremental rotary encoder with integral bearing and separete chaft coupling with 10v to 30v TTL Quadrature output and synchro flange**  **Output signals - 5v TTL Quadrature  Line count - 50 to 5000 Mech. perm. Speed - 12000 rpm  Power supply - 10v to 30v Scanning frequency - Max. 300 kHz  Shaft - Stub shaft dia. 6 mm  Protection - IP 64 (EN 60529)** | [**ROD 466**](http://www.atechauthority.com/pdf/Rotary_Prod.pdf#page=) |
|  | [**RON 221**](http://mmto.org/~dclark/Reports/Encoder%20Upgrade/Heidenhain%20angle%20encoders%20591_109-21.pdf) |
|  | [**RON 225**](http://mmto.org/~dclark/Reports/Encoder%20Upgrade/Heidenhain%20angle%20encoders%20591_109-21.pdf) |
|  | [**RON 350-2048**](http://mmto.org/~dclark/Reports/Encoder%20Upgrade/Heidenhain%20angle%20encoders%20591_109-21.pdf) |
|  | [**ROQ 424-512**](http://saba.kntu.ac.ir/eecd/ecourses/instrumentation/heidenhain%20increamental%20encoder%20cataloge.pdf) |