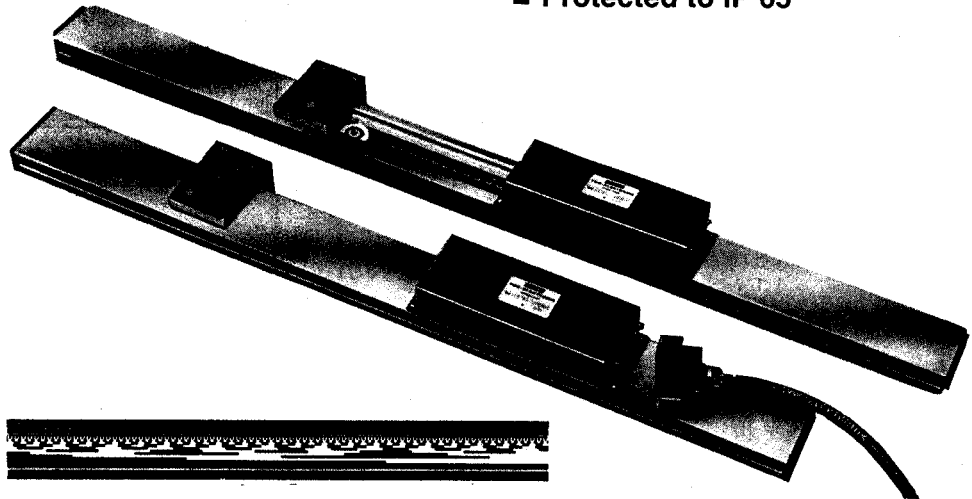


- Gray, Natural Binary or BCD output code
- Measuring strokes from 100 to 1500 mm
- Resolution 0.1 mm
- Parallel interface
- Permanent magnet slide
- Protected to IP 65



Construction

The displacement encoder consists of a fully enclosed light alloy case of rectangular cross-section in which a coded scale in deformation resistant plastic is read out by an electro-optical sensor device. The coded scale is pulled through the sensor head by a permanent magnet slide. The head is fixed to the case. It also contains the CMOS electronic circuit required for signal conditioning and code conversion as well as the output circuits. The electrical connection is provided by a 25-pin connector on the sensor head.

Application

The above construction enables the displacement encoder to be used in harsh and particularly dusty industrial environments. The use of the Gray code on the scale and self-monitoring by parity checks ensures the reliable, non-ambiguous output of information.

Technical Data

- | | | | |
|-----------------------------|--|---------------------------------|---|
| ■ Measuring strokes : | 100 mm to 1500 mm | ■ Enable : | Outputs blocked from 12 V to 24 V, active when less than 6V or open |
| ■ Resolution : | 0.1 mm | ■ Latch : | Information stored from 12 V to 24 V, not stored when less than 6 V or open |
| ■ Reading speed : | 2 m/s max. | ■ Parity alarm : | With reading error outputs A and B switch to Log1, output C to Log0 |
| ■ Hysteresis : | 0.1 mm | ■ Zero mark for adjustment : | Additional signal of 0.1 mm in the zero position |
| ■ Linearity : | ≤ 0.05% | ■ Supply voltage range : | + 10 to + 24 VDC |
| ■ Coeff. of expansion : | 0.0018%/K | ■ Supply current : | approx. 400 mA |
| ■ Output code : | Gray, Natural Binary or BCD | ■ Operating temperature range : | 0°C to +60°C |
| ■ Output circuits : | A = Open collector Darlington (std.) | ■ Storage temperature range: | - 20°C to + 80°C |
| | B = Open collector TTL compatible, low level (optional) | ■ Mass : | 1000 g |
| | C = open emitter Darlington (optional) | ■ Protection : | + 250 g per 100 mm stroke |
| ■ Code sense : | Increasing code for movement in direction of reading head : "1"
Decreasing code for movement in direction of reading head : "2" | | IP 65 to DIN 40050 |
| ■ Sense signal (optional) : | Log1 = movement in direction of reading head
Log0 = movement in opposite direction (vice versa on request) | | |

