



Technical Data

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| Output signal | DeviceNet |
| Transducer interface | D |
| Input interface | DeviceNet |
| Profibus-Version | Encoder Profil |
| Profibus-Interface | potential-free |
| System resolution position | 5 µm increments configurable |
| System resolution velocity | 0.1 mm/s increments configurable |
| Hysteresis | <=1 Digit |
| Repeatability | ±1 Digit |
| Sampling rate | 1kHz |
| max.non-linearity | ±30µm at 5 µm resolution |
| Temperature coefficient of overall system | (6µm +5ppm x L) /°C |
| Magnet traverse speed | any |
| Supply voltage | 24 V DC ±20% |
| Current draw | <100mA |
| Operating temperature | -40...85°C |
| Storage temperature | -40...100°C |
| Shock load | mechanical switches or DeviceNet |
| Address assignment | 100g / 6ms per IEC60068-2-27 |
| Vibration | 12g, 10...2000 Hz per IEC 60068-2-6 |
| Polarity reversal protected | yes |
| Overvoltage protection | Transzorb protection diodes |
| Dielectric constant | 500 V (GND to housing) |
| Enclosure rating per IEC 60529 | IP 67 (when BKS-S...IP 67 connector is in place) |
| Housing material | Anodized aluminum |
| Mounting | Compression clamps |
| Connection type | Connector |
| recommended connector | BKS-S92-00 + BKS-S48-15-CP.. |
| RF emission | EN 55 011 Group 1, Class A |
| Static electricity (ESD) | IEC 61000-4-2 Severity Level 3 |
| Electromagnetic fields (RFI) | IEC 61000-4-3 Severity Level 3 |
| Fast transients (BURST) | IEC 61000-4-4 Severity Level 4 |
| Line-carried noise, induced by high-frequency fields | IEC 61000-4-6 Severity Level 3 |
| Cable length [m] at Baud rate (kBit/s) | <100 <250 <500 |
| Accessories | Pin assignments |
| | Control and data signals |
| | Supply voltage and shield |
| | Shield Supply |
| | S 93 5-pin |
| | S 93 3-pin |
| | 1 |
| | 2 |
| | 3 |
| | 4 |
| | 5 |
| | 1 |
| | 3 |
| | 4 |