



**Functional safety**

MTTF (40 °C) 692 a

**Interface**

Differential signals no  
 Error signal yes  
 Interface Digital A/B (HTL)  
 Reference signal Pole-periodic  
 Signal sequence A before B = rising

**Material**

Cable flame-resistant UL94 V0 and IEC 60332/2  
 Housing material PBT  
 Material jacket PUR

**Mechanical data**

Dimension 10 x 25 x 35 mm  
 Lateral offset (Y) ±4 mm  
 Mounting part Through-hole 3.5 mm  
 Pitch max. ±1.0 °  
 Pole width 10 mm  
 Procedure direction Lengthwise to tape  
 Roll max. ±3.0 °  
 Weight 11 g (excluding cable)  
 Yaw max. ± 3.0 °

**Range/Distance**

Edge separation min. 4 µs  
 Interpolation factor 1000  
 Non-linearity max. ±400 µm (z=1...5 mm, y=±2 mm)  
 Non-linearity typ. ±550 µm (z=0.01...6.5mm, y=±4mm)  
 Read distance 0.01...6.5 mm  
 Repeat accuracy ≤ 10 µm  
 Resolution 10 µm (edge separation A/B)  
 Traverse speed max. 1.98 m/s

**Wiring Diagrams**

Color	Signal
WH	+A
BN	NC
GN	+B
YE	NC
GY	+Z
PK	NC

Color	Signal
BU	GND
RD	V DC
BK	GND Sense
VT	V DC Sense
GY-PK	+Nerror
RD-BU	NC
TR	Shield