



Enkodery liniowe KH53

KHK53-PXF00354



Nazwa modelu > **KHK53-PXF00354**

Numer części > **1036165**



Produkt może różnić się od ilustracji

At a glance

- Non-contact length measurement - maintenance-free, rugged, long lifetime
- High reproducibility (0.3 mm / 1 mm), high system resolution (0.1 mm)
- SSI and PROFIBUS interfaces
- Determination of absolute position
- Measuring lengths of up to 1,700 m possible
- Can be used in harsh environments
- High travel speeds of up to 6.6 m/s
- Distance tolerance between read head and measuring element: up to 55 mm $\pm$ 20 mm possible

Your benefits

- After installation, the system is immediately available and completely maintenance-free, which leads to time and cost savings.
- Reliable determination of position under harshest environmental conditions such as influences of dirt, dust, fog, shocks and vibrations
- High efficiency and productivity
- Savings on time - no reference run necessary on initial operation due to absolute position measurement
- accurate positioning even with high mounting tolerances



Wydajność

Measuring length:	0 m ... 354 m
Measuring range:	354 m
Rozdzielczość:	0,1 mm
Piston speed:	6,6 m/s ¹⁾
Measurement accuracy:	$\pm 1000 + ME$ (Tu-25° C) Tk μm ²⁾
Dokładność powtarzania:	0,3 mm

¹⁾ If the max. movement speed is exceeded or the read head cannot detect a measuring element an error message is produced. ²⁾ If the read head and measuring element are mounted within ± 1 mm of the nominal mounting distance in the N and Y directions. The figures quoted related to the accuracy within a measuring element with reference to the start of that measuring element. ME = length measuring element Tu = Ambient temperature °C

!Mechanical data!

Typ połączenia:	3 x connector M12
Mass:	3,6 kg
Position tolerance:	± 10 mm

Material: AIMgSiPbF28

!Electrical data!

Initialization time:	2 s
Czas obliczania pozycji:	1,1 ms
Napięcie zasilania:	10 V ... 32 V
Pobór mocy:	2,5 W
MTTFd: mean time to dangerous failure:	28 a (EN ISO 13849) ¹⁾

¹⁾ This product is a standard product and does not constitute a safety component as defined in the Machinery Directive.

Calculation based on nominal load of components, average ambient

temperature 40°C, frequency of use 8760 h/a. All

electronic failures are considered hazardous. For more information, see document no. 8015532.

Interfejsy

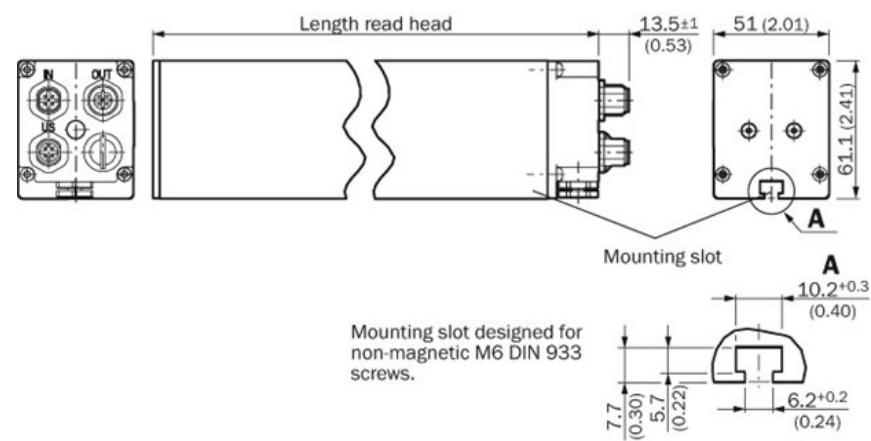
Electrical interface:	PROFIBUS DP
Bus interface::	RS-485 ¹⁾ ²⁾ ³⁾
SET (electronic adjustment):	Via protocol
Address setting:	0 ... 127, Hex switches or Protocol
Data protocol:	Profibus DP basic functions, Profile for encoders (07hex) - Class 2
Status information:	Operation (LED green), Bus activity (LED red)
Zakończenie magistrali:	Via external switches

¹⁾ EN 50 170-2 ²⁾ DIN 19245 part 1-3 ³⁾ DC isolated via opto-couplers

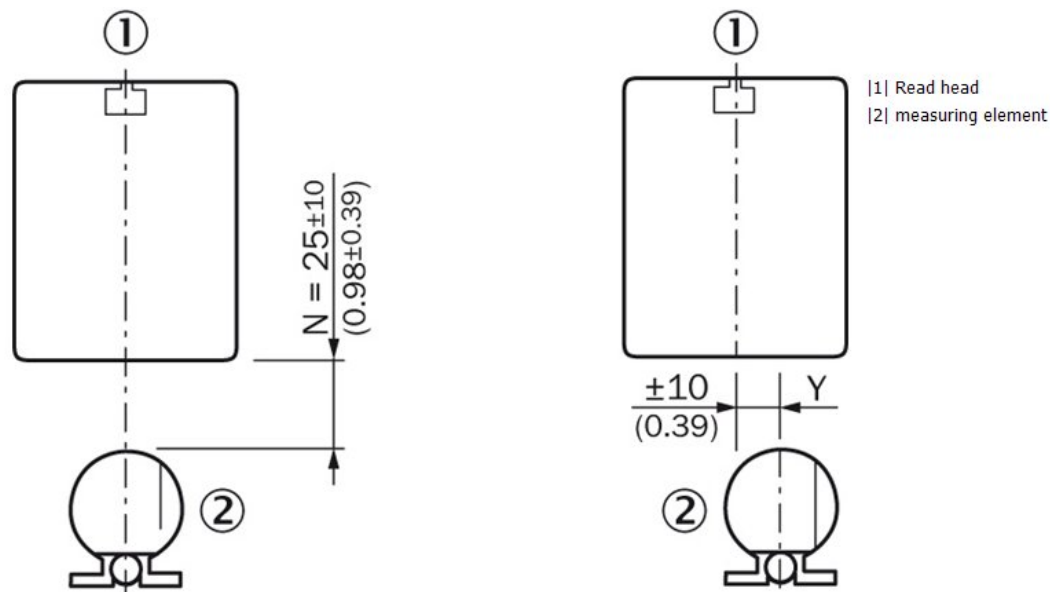
Dane otoczenia

Kompatybilność elektromagnetyczna::	(according to EN 61000-6-2 and EN 61000-6-4) ¹⁾
Rodzaj zabezpieczenia:	IP 67 (IEC 60529), with mating connector inserted
Working temperature range:	-20 °C ... +60 °C
Storage temperature range:	-40 °C ... +85 °C
Odporność na uder:	30 g, 10 ms (DIN EN 60 068-2-27)
Odporność na drgania:	10 g, 20 Hz ... 250 Hz (EN 60068-2-6)

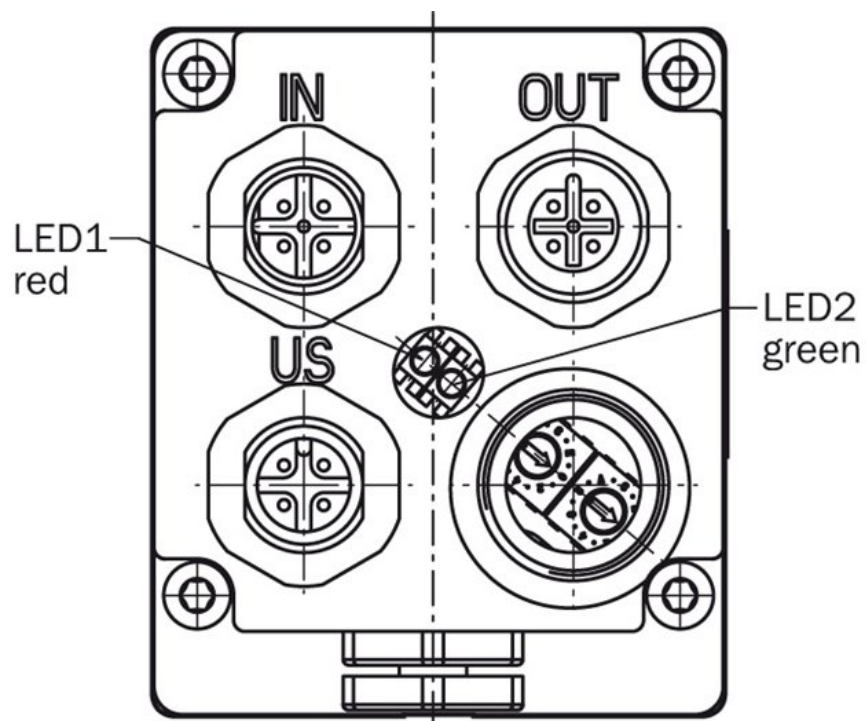
¹⁾



Position tolerance



All dimensions in mm (inch)



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