**Scanning head LMKA 2010**

Interface EnDat 2.2 Fanuc α BiSS/C Mitsubishi

(full duplex)

Mitsubishi

(half duplex)

SSI + 1Vpp

Designation EnDat 2.2 Fanuc02 BiSS MitA1-4 MitA1-2 SSI - 1Vpp

Clock frequency ≤ 16 MHz - ≤ 2,5 MHz 5 Mbps 5 Mbps ≤ 1 MHz

Measuring step

Standard 1μm or 0,25μm

High Accuracy 0,1μm -

Position deviation per grating pitch1)

Standard ± 2μm

High Accuracy ± 0,5μm -

Max. speed 20m/s

Cable length on scanning head 0,5m to 6m

Electrical Connection

Cable with M12 coupling, 8pin male Cable with M23

coupling,

12pin male

Voltage supply DC 3,6V to 14V

Power consumption ≤ 1,5W at 5V

Typical current consumption 300mA at 5V

Vibration 55 to 2000 Hz < 200m/s² (EN 60068-2-6)

Shock 6 ms < 2000m/s² (EN 60068-2-27)

Operating temperature -10°C to 85°C

Storage temperature -20°C to 85°C

Protection IP67

Mass 40g

1) The position error per grating period and the accuracy of the grating results toghether in the encoder specific error; additional deviations caused by mounting and bearing

are not considered in this error.