ABSOLUTE OPTICAL SCALE GVS 608 D DRIVE-CIQ

code **ST02** project **A56-C** release **C**



DRIVE-CLiQ

GENERAL FEATURES

- Absolute optical scale with glass measuring support.
- DRIVE-CLIQ interface, for a direct connection to Siemens CNCs.
- Resolution up to 10 nm. Accuracy grade up to $\pm 2 \mu m$.
- Innovative device inside the scale for the disposal of liquids coming from inefficient filtering systems.
- Adjustable connecting cable output.
- Connector incorporated into the transducer.
- Direct reading of absolute measure.
- Small size, to allow installation in narrow spaces.

Cod. GVS 608

Cod. GVS 608	D3
Measuring support - Grating pitch - Linear thermal expansion coefficient	glass scale 20 μm 8 x 10 ⁻⁶ °C ⁻¹
Serial interface	Siemens DRIVE-CLiQ
Resolution absolute measure	0.1 - 0.01 μm
Accuracy grade	\pm 5 μm * standard version \pm 3 μm * high-accuracy version (± 2 μm for ML up to 720 mm)
Measuring length ML in mm	70, 120, 170, 220, 270, 320, 370, 420, 470, 520, 570, 620, 720, 770, 820, 920, 1020, 1140, 1240, 1340, 1440, 1540, 1640, 1740, 1840, 2040, 2240, 2440, 2640, 2840, 3040, 3240 _{MAX}
Max. traversing speed	120 m/min
Max. acceleration	30 m/s ²
Required moving force	≤ 2.5 N
Vibration resistance (EN 60068-2-6)	100 m/s ² [55 ÷ 2000 Hz]
Shock resistance (EN 60068-2-27)	150 m/s ² [11 ms]
Protection class (EN 60529)	IP 54 standard IP 64 pressurized
Operating temperature	0 °C ÷ 50 °C
Storage temperature	-20 °C ÷ 70 °C
Relative humidity	20% ÷ 80% (not condensed)
Reading block sliding	by ball bearings
Connector	male M12 8 pins
Electrical protections	inversion of polarity and short circuits
Weight	435 g + 1290 g/m

* The declared accuracy grade of \pm X μm is referred to a measuring length of 1 m.

MECHANICAL CHARACTERISTICS

- Rugged and heavy PROFILE made of anodized aluminum. Dimensions 40x24 mm.
- Elastic COUPLING for misalignment compensation and self-correction of mechanical hysteresis.
- Non-extendible SEALING LIPS along the sliding side of the reader head, fixed at the lateral ends.
- READER HEAD, consisting of tie rod and reading block, with fully-protected place for electronic boards.
- READING BLOCK sliding through ball bearings.
- Die-cast TIE ROD, with nickel surface treatment.
- DRIVE-CLiQ **INTERFACE** integrated in the transducer.
- Absolute GLASS GRATING placed in the scale housing.
- Elastomeric GASKETS which allow to reproduce the full protection in mechanical joints (in case of disassembling).
- FULL POSSIBILITY to disassemble and reassemble it.
- Possibility of direct SERVICE.

ELECTRICAL CHARACTERISTICS

- Reading device with an infra-red light emitter and receiving photodiodes.
- Electrical protection against polarity inversion and short circuits on output ports.
- CABLE:
 - PUR external sheath
 - standard length 0.5 m
 - male connector M12 8 pins



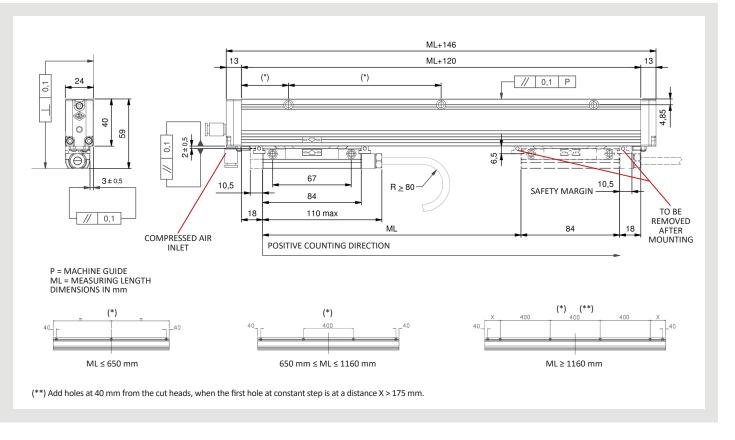
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DIMENSIONS



ORDERING CODE					Example OPTICAL SCALE GVS 608 D01A 03240 V D3 M05/S PF						
	Model	Scale type, resolution	Measuring length	Po	ower supply	Output signals	Cable length, cable type		Special, essurization		
	GVS 608	D01 = $0.1 \mu m$ D001 = $0.01 \mu m$ A = absolute	Measuring length in mm 03240 = ML _{MAX}	V		D3 = DRIVE-CLiQ	Mnn = length in m M05 = 0.5 m S = PUR cable		. = standard = special nn = pressurized		

Without prior notice, the products may be subject to modifications that the Manufacturer reserves to introduce as deemed necessary for their improvement.



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