QG series



Discontinued: QG65 analog H-series. Successor: QG65N2 High accuracy series

QG65-KD-030H-AI-CM

Inclination sensor

2 axis horizontal mounting

Factory programmable device Output: 4 - 20 mA

Measuring range programmable between ±1° and ±30°

> Measuring range Factory defaults: ± 30°



CE

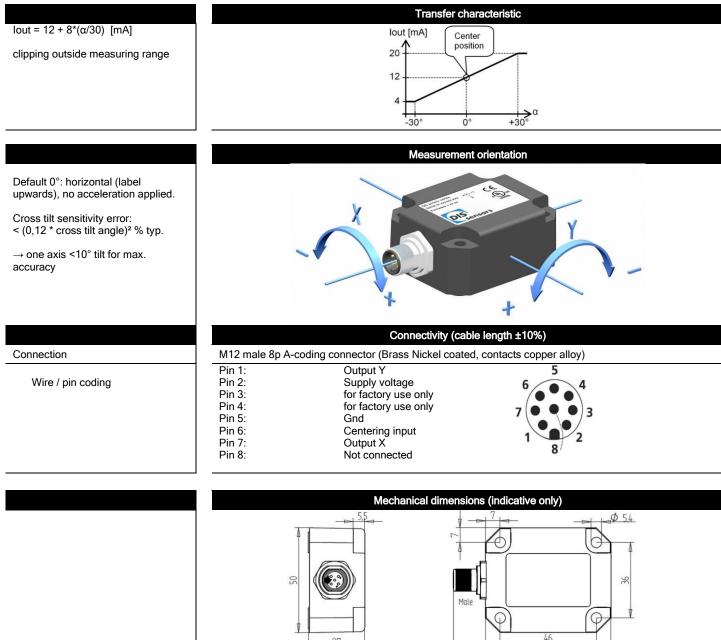
	General specifications 11444, v20241021
Housing	Reinforced plastic injection molded (Faradex DS, black, EMI shielded by
Dimensions (indicative)	60x50x27 mm
Mounting	Included: 4x M5x25 mm zinc plated steel pozidrive pan head screws, se Mounting on flat surface only. Screw with car
Ingress Protection (IEC 60529)	IP67, IP69K (with IP69K mating connector)
Relative humidity	0 - 95% (non condensing, housing fully potted
Weight	approx. 110 gram
Supply voltage	10 - 30 V dc
Polarity protection	Yes
Current consumption	≤ 25 mA (excluding output signal)
Operating temperature	-40 +85 °C
Storage temperature	-40 +85 °C
Measuring range	Factory defaults: ± 30°
Centering function	Yes (12 mA = 0°), range: $\pm 5^{\circ}$
Frequency response (-3dB)	0 - 10 Hz
Accuracy (overall @20°C)	0,05° typ.
Offset error	± 0,03° typ. (± 0,08° max) after centering
Non linearity	± 0,04° typ., ± 0,07° 2σ, ± 0,09° max.
Sensitivity error	not applicable. Repeatability 0,05°
Resolution	0,01°
Temperature coefficient	± 0,005°/K typ.
Max mechanical shock	20.000g
Output	4 - 20 mA
Output load	Rload ≤ (50*Vs -300) (Ω) (Eg: Vs = 24 V: Rload ≤
Short circuit protection	Yes (T<55°C), Max 10 s (T>55°C)
Output refresh rate	20 ms
Programming options	Factory programmable (measuring range, filteri

Reinforced plastic injection molded (Faradex DS, black, EMI shielded by stainless steel fiber in PC)
60x50x27 mm
ncluded: 4x M5x25 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN7500CZ) Mounting on flat surface only. Screw with care
IP67, IP69K (with IP69K mating connector)
0 - 95% (non condensing, housing fully potted)
approx. 110 gram
10 - 30 V dc
Yes
\leq 25 mA (excluding output signal)
-40 +85 °C
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Factory defaults: ± 30°
Yes (12 mA = 0°), range: $\pm 5^{\circ}$
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0,05° typ.
\pm 0,03° typ. (\pm 0,08° max) after centering
$\pm 0.04^{\circ}$ typ., $\pm 0.07^{\circ} 2\sigma$, $\pm 0.09^{\circ}$ max.
not applicable. Repeatability 0,05°
0,01°
± 0,005°/K typ.
20.000g
4 - 20 mA
Rload \leq (50*Vs -300) (Ω) (Eg: Vs = 24 V: Rload \leq 900 Ω)
Yes (T<55°C), Max 10 s (T>55°C)
20 ms

DIS sensors

QG series

QG65-KD-030H-AI-CM



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Center function

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Centering can be done to eliminate mechanical offsets. To execute centering connect center input to ground (>0,5sec) within 1 min. after power up. After centering you have 1 min. left for another centering. Normally the center input should be left unconnected.

Optional: for accurate mounting two factory mounted positioning pins can be mounted (Ø4mm) replacing 2x M5x25 mm.

As this device is accelerometer-based the sensor is inherent sensitive for accelerations/vibrations. Application specific testing must be carried out to check whether this sensor will fulfil your requirements.