

Incremental-Encoder IOH58:2 2...70000 Imp

Ref.: K-IOH58:2-INC-1

26.10.2014

0101010582

Advantages

- _ Flexible programming
- _ High resolution system
- _ Imp./Rev. 1-step from 2...x
- _ Modular mechanical design
- _ Modular product line
- _ Programmable output stages
- _ Wide range power supply



General Data

| | |
|---------------------------------|------------------------|
| Nominal voltage | |
| - Specific value | 24 VDC |
| - Limit values, min/max | 4.5/32 VDC |
| Nominal current, typically | |
| - Specific value | 50 mA |
| - Condition | unloaded |
| Signal form | Square |
| Incremental signals, square | |
| - Channels | K1+ K1- K2+ K2- |
| - Phase position, electrically | 90 ° |
| Zero pulse | |
| - Channel (Channels) | K0+ K0- |
| - Number of revolutions | 1x |
| Impulses, square wave | >= 2...<= 70000 |
| Output stages | |
| - Programmable | TTL or HTL |
| Output driver, TTL | |
| - Output level | RS-422, 5 VDC |
| - Load current | <= 50 mA |
| Output driver, HTL | |
| - Output level | Supply voltage - 1.5 V |
| - Load current | <= 30 mA |
| - Minimum voltage of the supply | > 8 VDC |

Subject to change.

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General Data continuation

| | |
|--------------------------------|--------------------------------|
| Speed, electrically [1/min] | 1.5E+7 / Pulses per revolution |
| Parameter/Function, changeable | Number of pulses |
| | 0-Pulse K0: Pulse length |
| | 0-Pulse K0: Number of pulses |
| | Phase position: K0/K1/K2 |
| | Preset parameter |
| | Counting direction |
| | Output stage (TTL/HTL) |
| Type of parametrization | programmable |
| Programming - Tool | TR-Soft: TRWinProg |
| External inputs | |
| - F/R | Count direction |
| - Preset | electronic adjustment |
| - Logic level | "0" < +2V, "1" = Supply |
| External outputs | |
| - Error output | Speed |
| - Output level | <= 40 VDC, <= 50 mA |
| - Output stages | Open Collector |
| - Equipment | Option |
| Maximum Speed, mechanically | <= 6000 1/min |
| Shaft load, axial/radial | Own mass |
| Bearing life time | >= 3.9E+10 revolutions |
| Bearing life time - Parameter | |
| - Speed | 6000 1/min |
| - Operating temperature | 60 °C |
| Shaft type | |
| - Shaft diameter [mm] | 6 |
| - Shaft diameter [mm] | 8 |
| - Shaft diameter [mm] | 10 |
| - Shaft diameter [mm] | 12 |
| - Shaft diameter [mm] | 14 |
| - Shaft diameter [mm] | 15 |
| - Shaft diameter ["] | 1/4 |
| - Shaft diameter ["] | 3/8 |
| - Shaft diameter ["] | 1/2 |
| Angular acceleration | <= 10E+4 rad/s ² |
| Moment of inertia, typically | 2.5E-6 kg m ² |
| Start-up torque, 20 °C | 3.7 Ncm |

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General Data continuation

| | |
|-------------------------|--------------|
| Concentricity tolerance | ± 0.03 mm |
| Mass, typically | 0.3...0.5 kg |

Environmental conditions

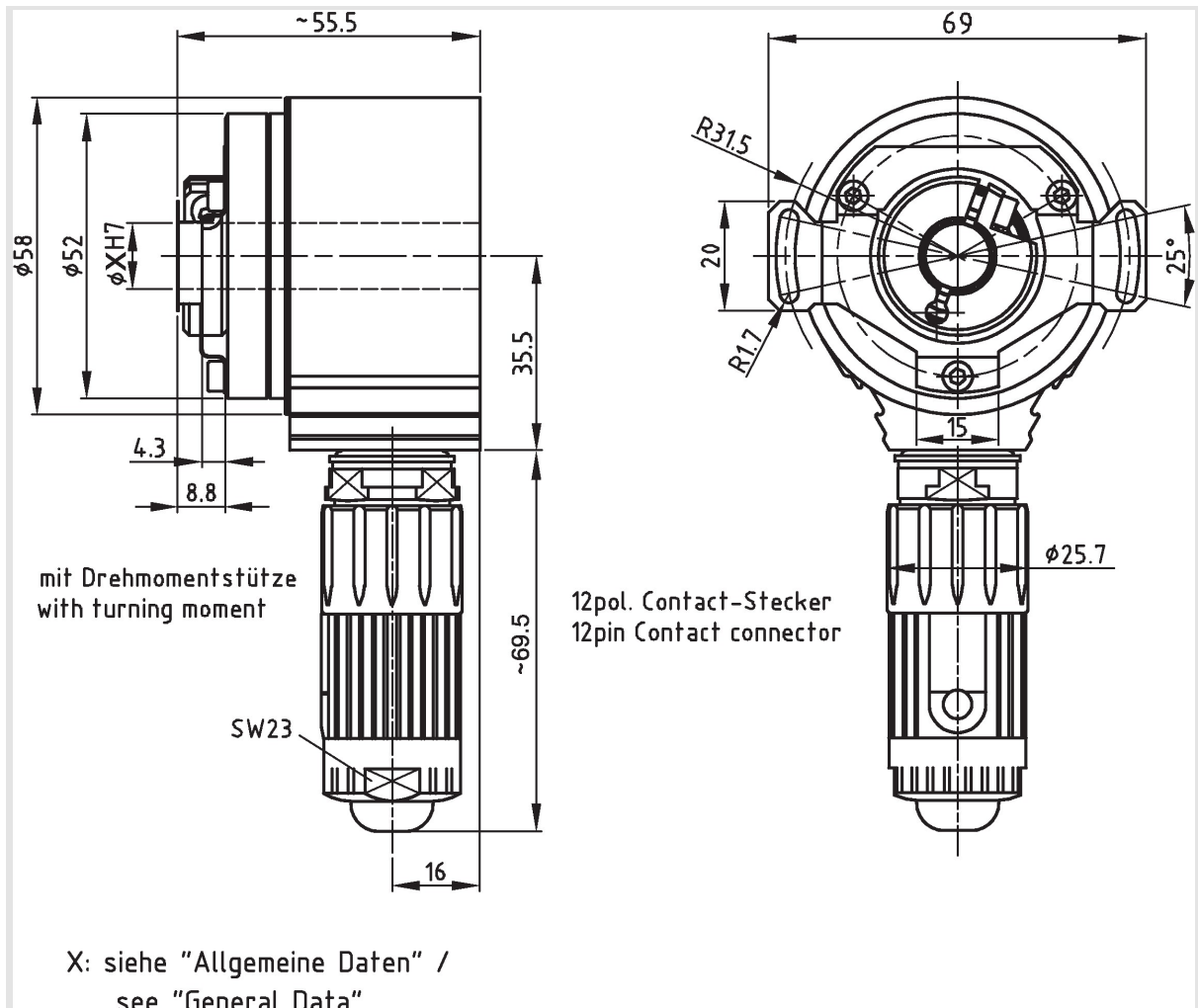
| | |
|--------------------------|--------------------------|
| Vibration | |
| - Specific value | <= 100 m/s ² |
| - Sine | 50...2000 Hz |
| Shock | |
| - Specific value | <= 1000 m/s ² |
| - Half sine | 11 ms |
| Immunity to disturbance | DIN EN 61000-6-2 |
| Transient emissions | DIN EN 61000-6-3 |
| Working temperature | |
| - Standard | -20...+75 °C |
| - Optional | -40...+100 °C; |
| Storage temperature, dry | -30...+80 °C |
| Relative humidity | 98 %, non condensing |
| Protection class | |
| - Standard | IP65 shaft side |
| - Standard | IP67 housing side |

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Dimensional drawing



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