530-03 Series Optocouplers

- **Features: Optocoupler for Safe Circuits with a High-Level Galvanic Separation**
- **Applications: Electronics for Mining, Test & Measurement, Automation Technology**
- **Markets: Oil & Gas Production, Refinery, Mining, Medical, Test and Measurement, and others**

Part Description: 530-03-1-XX

Coupler Characteristics	10	20	Unit
Isolation Voltage Input/Output (min	10,000	20,000	VDC
Current Transfer Ratio (typ.) Ic/If CTR (If = 10mA)	0.5		µsec
Collector-Ermitter Voltage (max.)	32		VDC
Collector Current Ic (max.)	15		mA
Creeping Distance (min.)	34.0		mm
Air Path Input/Output (min.)	34.0		mm
Insulation Distance Ermitter-Detecto (min.)	5		mm
Insulation Resistance Input/Output (min.)	10^{12}		Ohm
Transmission Frequencies (typ.)	50		kHz

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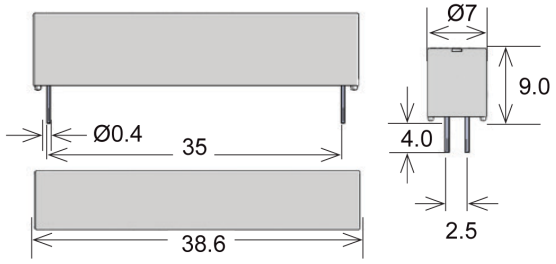
Housing and Material Specifications	
Housing Material	PBT Glass Fiber Reinforced
Case Color	White
Sealing Compound	Polyurethan
Connection Pins	Cμ-Alloy Tinned
Washability	Fully Sealed

Environmental Data (at 20°C)		Unit
Shock Resistance (max.) 1/2 sine wave duration 11ms	50	g
Vibration Resistance (max.)	20	g
Operating Temperature (max.)	-40 to 85	°C
Storage Temperature (max.)	-40 to 100	°C
Soldering Temperature (max.) 5 seconds max.	260	°C

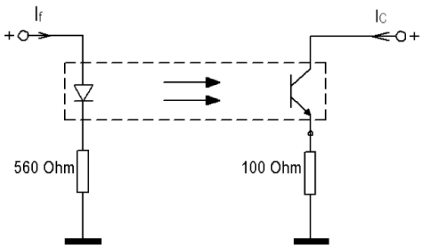
Dimensions (in mm [inch]) Tolerances acc. to ISO 2768-m

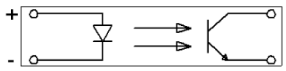


Handling & Assembly Instructions

- It is advised that normal static precautions be taken in handling and assembly of this component to prevent damage and/or degradation which may be induced by ESC.

Test & Circuit Layout (Top View)





Please note: All technical specifications on this series datasheet refer to the standard product range. Modifications in the sense of technical progress are reserved. For general information only. For more specific information, please consult the product datasheet, available upon request.

This series datasheet could contain technical inaccuracies or typographical errors. Changes are periodically made to the information herein. These change will be incorporated in future revisions.

For deviating values, most current specifications and products please contact your nearest sales office.

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