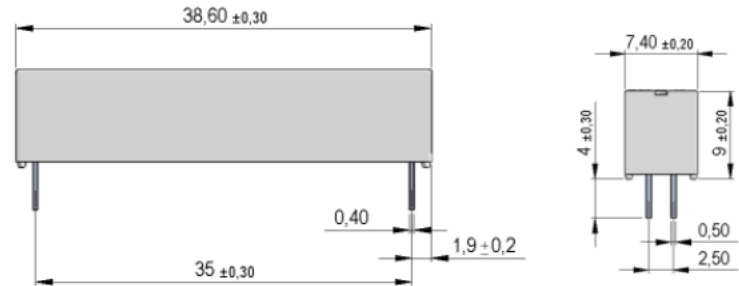


530-03 Series Optocouplers



- 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

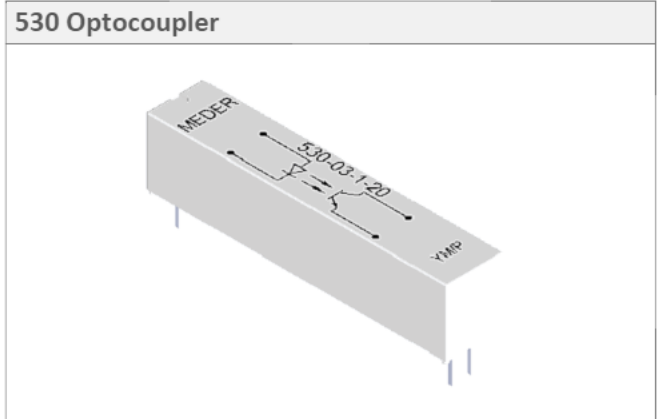
Part Description: **530-03-1-XX**

Customer Options			Unit
Coupler Characteristics	10	20	
Isolation Voltage Input / Output (min.)	10,000	20,000	VDC
Current Transfer Ratio (min.) <small>I_c/I_f CTR (I_f = 10mA)</small>	0.5		
Transmission Frequencies (typ.)	50		kHz
Collector-Emitter Voltage (max.)	32		VDC
Collector Current I _c (max.)	15		mA
Creeping Distance (min.)	34.0		mm
Air Path Input / Output (min.)	34.0		mm
Insulation Distance Emitter-Detector (min.)	5		mm
Insulation Resistance Input / Output (min.)	10 ¹²		Ohm

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

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

Handling 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 and Layout

Test Circuit

Layout