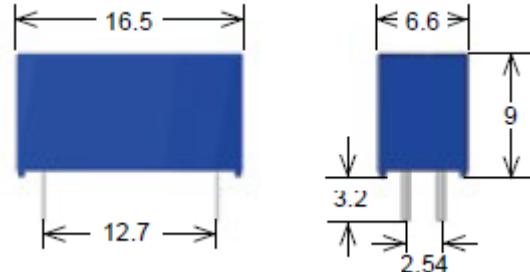


## 522 Series Optocouplers



- Features: ATEX Optocoupler for Intrinsically Safe Circuits
- Applications: Electronics for Mining, Test & Measurement, Automation Technology
- Markets: Oil & Gas Production, Refinery, Mining, Medical, Test and Measurement, and others

Part Description: **522-00-i**

Customer Options		Unit
<b>Coupler Characteristics</b>		
Isolation Voltage Input / Output (min.)	4,000	VDC
Current Transfer Ratio (min.) Ic/I <sub>f</sub> CTR (I <sub>f</sub> = 10mA)	0.5	
Turn On Time (typ.) T <sub>on</sub>	5.5	μsec
Turn-Off Time (typ.) T <sub>off</sub>	4.2	μsec
Collector-Emitter Voltage (max.)	32	VDC
Collector Current I <sub>c</sub> (max.)	50	mA
Creeping Distance (min.)	12.0	mm
Air Path Input / Output (min.)	12.0	mm
Insulation Distance Emitter-Detecto (min.)	2	mm
Insulation Resistance Input / Output (min.)	10 <sup>12</sup>	Ohm
Transmission Frequencies (typ.)	85	kHz

## Series Datasheet – 522 Optocouplers

[www.standexmeder.com](http://www.standexmeder.com)

## Housing and Material Specifications

Housing Material	Plastic
Case Color	Blue
Sealing Compound	Polyurethan
Connection Pins	Cu-Alloy Tinned

## 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.

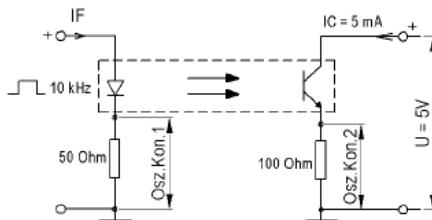


## 522 Optocoupler



## Test Circuit and Layout

## Test Circuit



## Layout

