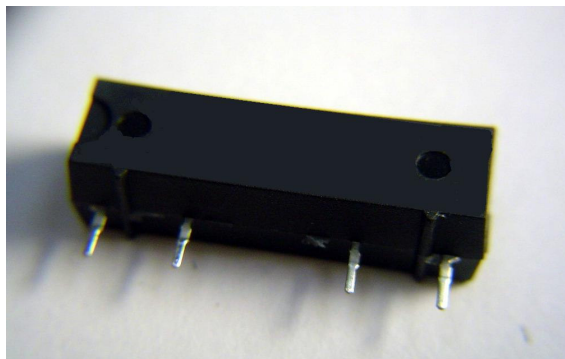


# Dry Reed Relays

## Datasheet SIL

### 1 form A - 1M/2M/1M layout

Comus International Bvba  
 Overhaamlaan 40  
 3700 Tongeren, Belgium  
 Phone: +32 12390400  
 Fax: +32 12235754  
 Email: info@comus.be  
 www.comus.be



### Features

- \* SIL 1 form A - 10 W epoxy molded dry reed relays
- \* Miniature, cost-effective switching solutions
- \* Automatic insertion compatible
- \* Completely washable
- \* High density board mounting
- \* Optional internal diode & magnetic shield

### Technical data (@ 25 °C)

		1A05	1A12	1A24	unit
<b>Input Data / Coil Data</b>	Conditions				
Nominal voltage		5	12	24	V
Coil resistance	Ohms (± 10%)	500	1000	2000	ohm
Must operate / Pull in V		3,75	9	18	V
Must release / Drop out V		0,8	1	2	V
Nominal input power		50	144	288	mW
Maximum voltage		10	20	28	V

### Output Data/Contact Data

		1A	1A	1A	unit
Contact form		1A	1A	1A	
Max. switching power	Max DC/PeakAC Resistive	10			W
Max. switching voltage	Max DC/PeakAC Resistive	200			V
Max. switching current	Max DC/PeakAC Resistive	0,5			A
Max. carry current	Max DC/PeakAC Resistive	2			A
Switching frequency		500			Hz
Max. contact resistance	50 mV, 10 mA	100			mOhm
Life expectancy	Signal level 1 V, 10 mA	min. 300 / typ. 500 x 10 <sup>6</sup> operations			

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## Technical data (@ 25 °C)

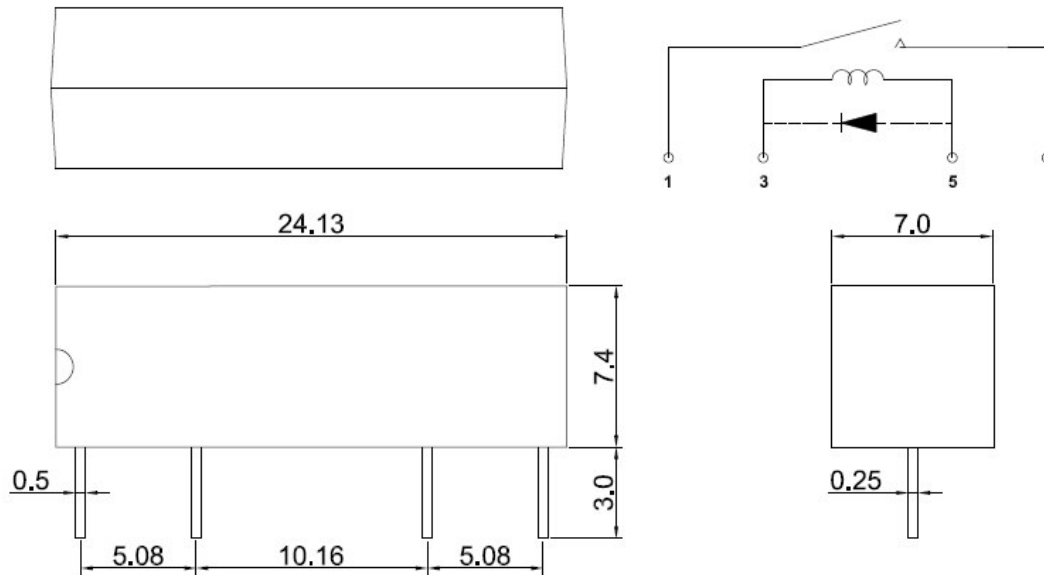
Relay parameters	Conditions	MIN	TYP	MAX	UNITS
Insulation resistance	between all isolated pins at 100 V, 25°C, 40% RH	10 <sup>11</sup>	10 <sup>12</sup>		Ohms
Capacitance	Across open contacts		-		
	Open contact to coil		-		
Dielectric strength	Between contacts	250			VDC / peak AC
	Contacts to coil	2500			VDC / peak AC
Operate time (incl.bounce)	At nominal coil voltage, 10 Hz Sq.W.		0.25	0.50	ms
Release time	Zener-diode suppression		0.25	0.50	ms

## Environmental Ratings

Operating temperature		-40		85	°C
Storage temperature		-40		125	°C
Shock resistance	1/2 sine wave duration 11 ms			100	g
Vibration resistance	5 to 2000 Hz			20	g
Weight			2		grams
Humidity test	40°C, 93% RH, 21 days				
Terminal solderability	IEC 68-2-20 test Ta, method 1, solderbath temp 235°C, immersion time 2 sec				
Resistance to solder heat	IEC 68-2-20 test Tb, method 1A, solderbath temp 260°C, immersion time 10 sec				



**Dimensions & Pin layout**



**Options and order information**

<b>3570.1321.xxx</b>		
	05	1 = without diode
		2 = with magnetic shield
3570.1321.	12	3 = with diode
	24	4 = with diode and magnetic shield

**Equivalent partnumbers**