

### Dimensions mm[inch]

tolerances acc. to DIN ISO 2768-m  
Toleranzen gem. DIN ISO 2768-m

**Layout**  
Top view  
Draufsicht

### Isometric

Scale 2:1  
Maßstab 2:1

### Marking

according to EN60062/factory code  
gem. EN60062/Fertigungsstätte

**MEDER electronic** YW/P  
**SIL12-1B90-71D**

Coil Data at 20 °C	Conditions	Min	Typ	Max	Unit
Coil resistance		900	1.000	1.100	Ohm
Coil voltage			12		VDC
Rated power			144		mW
Coil current			12		mA
Thermal resistance	max. Relay temperature = operating temperature + self heating		92		K/W
Pull-In voltage				8,4	VDC
Drop-Out voltage		1,8			VDC

Contact Data 94	Conditions	Min	Typ	Max	Unit
Contact rating	Any DC combination of V & A not to exceed their individual max.'s			10	W
Switching voltage	DC or Peak AC			100	V
Switching current	DC or Peak AC			0,2	A
Carry current	DC or Peak AC			0,5	A
Contact resistance static	Measured with 40% overdrive Start Value			150	mOhm
Contact resistance dynamic	Maximum value 1,5 ms after excitation Start Value			200	mOhm
Insulation resistance	RH <45 %, 100 V test voltage	1			GOhm
Breakdown voltage (<21 AT)	according to EN 60255-5	150			VDC
Operate time incl. bounce	measured with 40% overdrive			2	ms
Release time	measured with no coil excitation			2	ms
Capacity	@ 10 kHz across open switch		1,5		pF

Special Product Data	Conditions	Min	Typ	Max	Unit
Dielectric Strength Coil/Contact	according to EN 60255-5	1,5			kV DC
Insulation resistance Coil/Contact	RH <45%, 200 VDC measuring voltage	100			GOhm
Housing material		epoxy resin			
Connection pins		FeNi42, tin plated			
Approval		UL-File Nr. NRNT2.E156887 / NRNT8.E156887			
Reach / RoHS conformity		yes			



*Products for tomorrow...*

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Item No.:  
**3312190171**  
Item:  
**SIL12-1B90-71D**

Environmental data	Conditions	Min	Typ	Max	Unit
Shock	1/2 sine, duration 11ms, in 3 axis			50	g
Vibration	from 10 - 2000 Hz			20	g
Operating temperature		-20		70	°C
Storage temperature		-35		95	°C
Soldering temperature	wave soldering max. 5 sec.			260	°C
Washability					fully sealed

General data	Conditions	Min	Typ	Max	Unit
Packaging					tube per 25 pcs.

Modifications in the sense of technical progress are reserved

Designed at: 08.08.06    Designed by: KMUELLER  
Last Change at: 14.11.12    Last Change by: THAUKE

Approval at: 31.10.08    Approval by: KOLBRICH  
Approval at: 19.11.12    Approval by: JHEYDER

Version: 5