

Specifications

RoHS Compliant

Model Name: UDM-1xxD

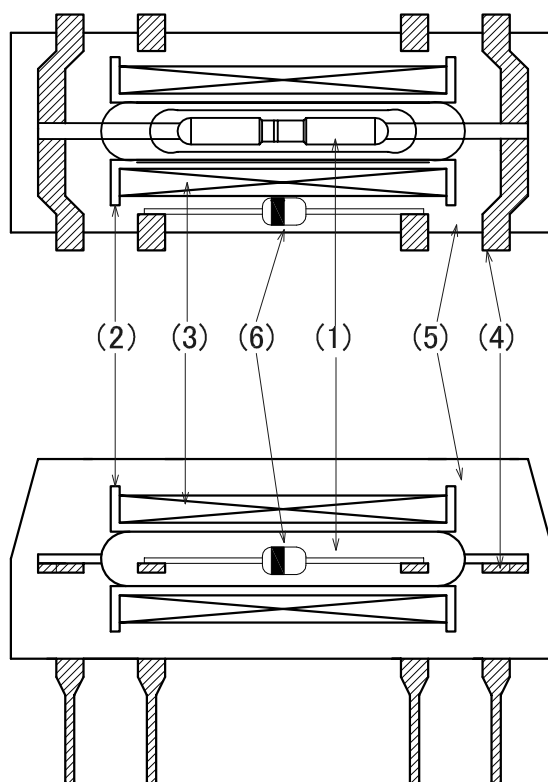
Description: Dual In-line Package

Contact Form: 1 Form A

w/Diode

Coil Spec		UDM-105D			UDM-112D			UDM-124D			
Test Parameters	Test Conditions	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Units
Coil Voltage			5.0			12.0			24.0		VDC
Coil Resistance	+/-10% 20°C		500			1000			2150		Ω
Must Operate	at 20°C			3.75			8.8			17.6	VDC
Must Release	at 20°C	0.7			1.2			2.4			VDC
Electrical											
Test Parameters		Test Conditions						Min	Nom	Max	Units
Switching Voltage		DC/Peak AC Resist								100	V
Switching Current		DC/Peak AC Resist								0.5	A
Carry Current	at 30 °C	DC/Peak AC Resist								1.0	A
Contact Rating		DC/Peak AC Resist								10	W
Life Expectancy	at 20 °C	at 1V 10mA						100			×10 ⁶ Cycle
Contact Resistance		Max Initial Operate Voltage								150	mΩ
Contact Resistance Stability		Max Initial Operate Voltage								5	mΩ
Insulation Resistance	Between Contacts	at 100 V 20 °C 65 %Rh						10 ¹⁰			Ω
	Contacts to Coil							10 ¹⁰			Ω
Dielectric Strength (Static)	Between Contacts	DC						200			V
	Contacts to Coil	DC						1500			V
Operate Time	(Including Bounce)	100 Hz		at Nominal Coil Voltage						1.0	ms
Release Time		Square Wave		Diode Suppression						1.0	ms
Environmental											
Operate Temperature								-20		80	°C
Storage Temperature								-40		85	°C
Operate Humidity								25		75	%Rh
Vibration		2000 Hz								20	G's
Shock										50	G's
Measurement Reference Condition		Temperature						15		35	°C
		Humidity						25		75	%Rh
		Atmospheric Pressure						860		1060	hPa

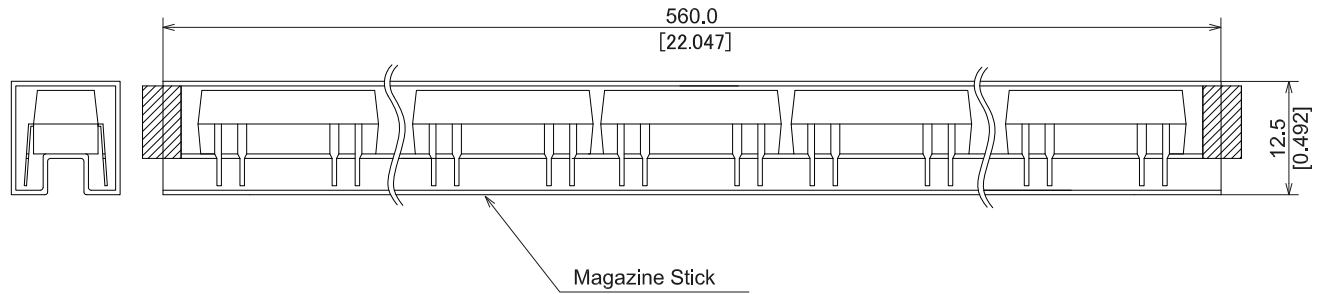
Dimensions		Packaging		Drawing		CHAR	H.Yano
A-D1001		C-D0045S		B-D0039		CHK	S.Terao
Note						APPR	J.Morinaga
						ISSUED	2012/2/7
REV	2	Added Structural drawing,Packaging				CHAR	S.Fukuhara
						APPR	S.Terao
						DATE	2013/8/6

Structural drawing

PARTS CONSTRUCTION A TABLE

	(Parts)	(Note)
(1)	Reed Switch	SW 1010
(2)	Bobbin	LCP(Liquid Crystal Polyester)
(3)	Coil	Polyesterimide Wire
(4)	Lead Frame	42FeNi (Plating:Ni/Sn)
(5)	Mold Resin	Epoxy Resin
(6)	Diode	Silicon Epitaxial Planar Diode

1	13. 8. 6	New enrollment	S.Fukuhara	S.Terao		
ISSUED	DATE	DESCRIPTION	CHAR	APPD	SCALE	MODEL TYPE
					n / s	UDM-1A Series
REVISIONS					TITLE	Structural drawing
DRAFTING	ENGINEER	CHAR	CHK	APPD	UNIT	 SANYU SWITCH CO.,LTD
S.Fukuhara	S.Fukuhara	S.Fukuhara	S. Fukuhara	S. Terao	mm (inch)	

Packaging SpecificationPackaging Quantity

27pcs/stick

1	13. 8. 6	New enrollment	S.Fukuhara	S. Terao		
ISSUED	DATE	DESCRIPTION	CHAR	APPD	SCALE	MODEL TYPE
					n/s	UDM(UDT) Series
REVISIONS					TITLE	Packaging
DRAFTING	ENGINEER	CHAR	CHK	APPD	UNIT	 SANYU SWITCH CO.,LTD
S.Fukuhara	S.Fukuhara	S.Fukuhara	S. Fukuhara	S.Terao	mm [inch]	