

ERD SERIES

10x10 SIZE SEALED CONSTRUCTION ROTARY TYPE

FEATURES

- Molded-in terminals and fully sealed construction.
- All plastics are UL 94V-0 grade fire retardant.
- Reliable contact and long-term stability.
- Binary decimal (8 or 10 positions) and hexadecimal (16 positions), real and complementary codes available.
- Pin-out is compatible with most of current equivalents.
- Gold plated contact to ensure low contact resistance.

APPLICATIONS

- Address switching applications
- Data storage devices
- Computer and peripherals
- Instrumentation

SPECIFICATIONS

1 ELECTRICAL

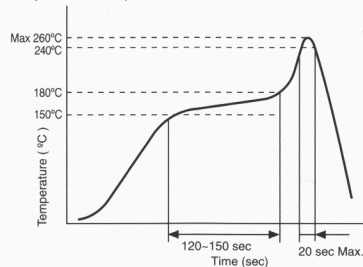
- Contact rating
 - switching
 - non-switching
- Contact resistance (initial)
- Insulation resistance
- Dielectric strength

25 mA, 24 VDC
100 mA
100 mΩ Max.
1000 MΩ Min. at 100 VDC
250 VAC Min. for 60 seconds

2 MECHANICAL and ENVIRONMENTAL

- Temperature rating
 - operating
 - storage
- Operation force
- Mechanical life
- Vibration
- Solderability
 - (for through hole type)
- Resistance to soldering heat (for through hole type)
- Reflow soldering heat for SMT
 - type (reference only)

-25 °C to +70 °C
-40 °C to +85 °C
500gf-cm Max.
10,000 steps
10Hz-50Hz-10Hz for 6 Hrs.
After flux 230 ± 5 °C for 5 ± 0.5 seconds, 95% coverage
260 ± 5 °C for 5 ± 1 seconds
240°C for 20 seconds or less, peak temperature 260°C or less



PART NUMBERING SYSTEM

ERD 1 10 R S Z

Z: RoHS Compliant

Setting:

S: Standard Type (Top Adjust Type)

R: Right Angle Type with Rows Spacing 2.54 mm (Side Adjust Type)

F: Right Angle Type with Rows Spacing 5.08 mm (Side Adjust Type)

M: Surface Mounting Type with Top Tape Sealed

D: Surface Mounting Type with Top Tape Sealed in Tape & Reel Package

Code: R: Real

A: Real / Cross shaped slot type

C: Complement

B: Complement / Cross shaped slot type

Number of Positions: 08, 10, 16

Rotor: 1: Flat Type (pin out 3:3) 2: Shaft Type (pin out 3:3)

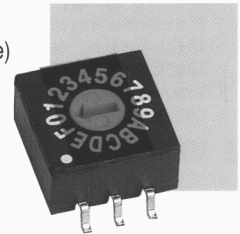
4: Flat Type (pin out 1:4) 5: Shaft Type (pin out 1:4)

Series name: ERD: Rotary Type Sealed Construction

PIN OUT (3:3)

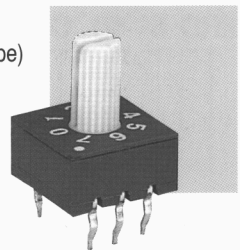
ERD

1xxxx (Flat Type)



ERD

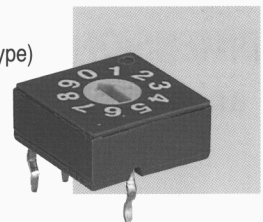
2xxxx (Shaft Type)



PIN OUT (1:4)

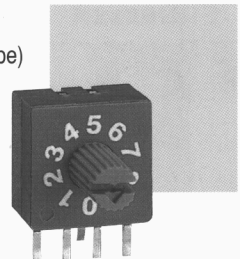
ERD

4xxxx (Flat Type)



ERD

5xxxx (Shaft Type)

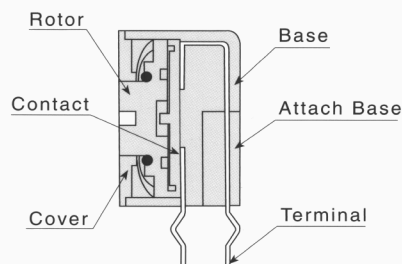
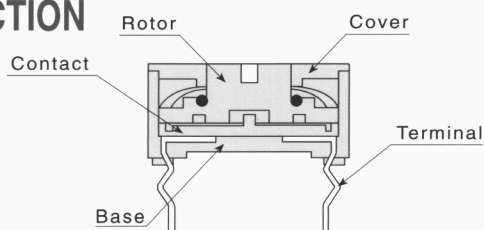


CODE

PIN NO.	POSITION															
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
1	○	●	○	●	○	●	○	●	○	●	○	●	○	●	○	●
2	○	○	●	●	○	○	●	●	○	○	●	●	○	○	●	●
4	○	○	○	○	●	●	●	●	○	○	○	○	●	●	●	●
8	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●

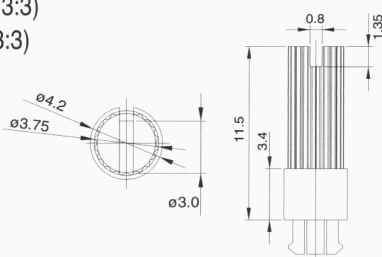
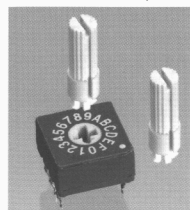
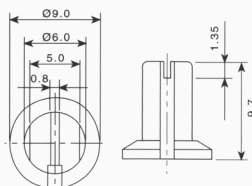
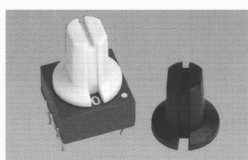
-Real Code
Rotor color : White (3:3), Yellow (1:4)
-Complement Code
Rotor color : Red (3:3), Orange (1:4)

CONSTRUCTION



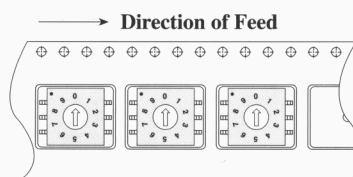
OPTIONS

- Special marking available upon request
- Shaft Cover
 - 418-80100 (White 3:3)
 - 418-80200 (Red 3:3)
 - 418-80300 (Yellow 1:4)
 - 418-80400 (Orange 1:4)
- Shaft (For Cross Shaped Slot Type Only)
 - 418-90100 (white 3:3)
 - 418-90200 (Red 3:3)

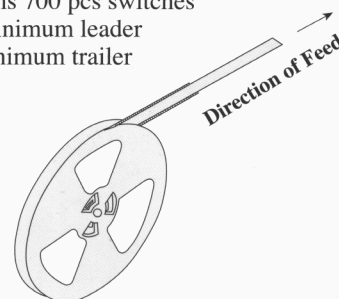


PACKAGING

- Tape & Reel Packaging (Per EIA STANDARD)



Each Reel contains 700 pcs switches with a 390mm minimum leader and a 160mm minimum trailer



INTRODUCTION to ECE ROTARY DIP SWITCH

SIZE	POSITIONS	CODE	PIN OUT	ROTOR	TYPE	PART NUMBER
10x10	8,10,16	REAL, COMPLEMENT	3:3	FLAT, SHAFT	STANDARD	ERD1xxxS, ERD2xxxS
					RIGHT ANGLE	ERD1xxxR/F, ERD2xxxR/F
				FLAT	SMT	ERD1xxxM
			1:4		SMT IN T&R	ERD1xxxD
				FLAT, SHAFT	STANDARD	ERD4xxxS, ERD5xxxS
					RIGHT ANGLE	ERD4xxxR/F, ERD5xxxR/F
7x7	10,16	REAL, COMPLEMENT	3:3	FLAT	SMT	ERD4xxxM
					SMT IN T&R	ERD4xxxD
					STANDARD	ERD6xxxSxx
			3:2		RIGHT ANGLE	ERD6xxxRxx
			3:3		SMT	ERD6xxxMxx
			5:0		RIGHT ANGLE WITH SMT	ERD6xxxJxx
			3:3		SMT IN T&R	ERD6xxxDxx
			5:0		RIGHT ANGLE WITH SMT IN T&R	ERD6xxxTxx

TELCONA

TELCONA AG • Hofstrasse 21 • CH-8181 Höri • Switzerland
Tel. +41 (0) 44 860 25 50 • Fax +41 (0) 44 860 28 22
info@telcona.com • www.telcona.com

DIMENSIONS AND CIRCUITRY

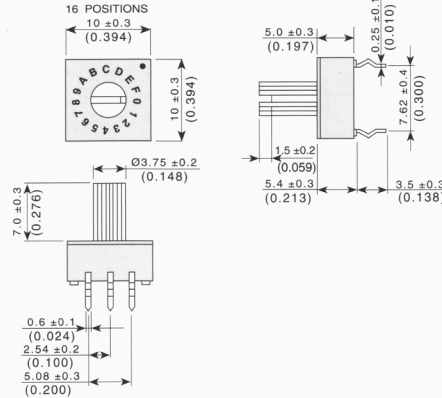
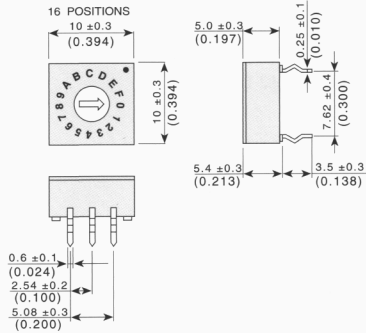
Unit:mm(inch)

PIN OUT 3:3

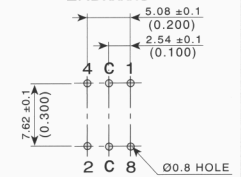
ERD1xxxS Flat Type

STANDARD TYPE

ERD2xxxS Shaft Type



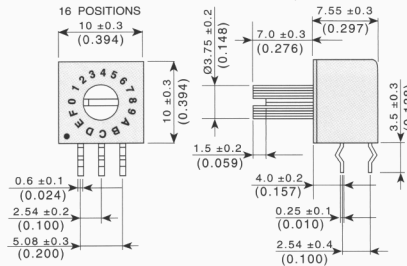
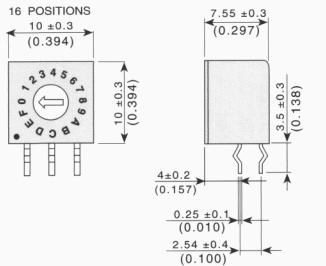
P.C.B. LAYOUT (TOP VIEW) ERDxxxS



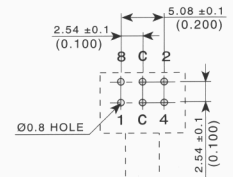
ERD1xxxR Flat Type

RIGHT ANGLE TYPE
PITCH: 2.54mm

ERD2xxxR Shaft Type



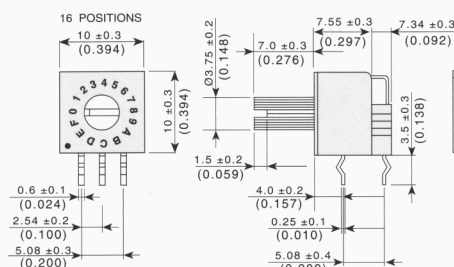
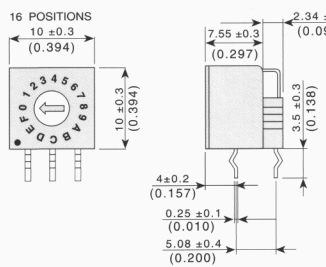
P.C.B. LAYOUT (TOP VIEW) ERDxxxR



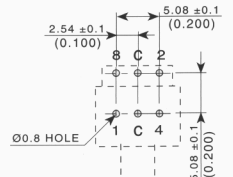
ERD1xxxF Flat Type

RIGHT ANGLE TYPE
PITCH: 5.08mm

ERD2xxxF Shaft Type



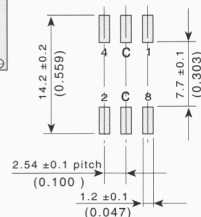
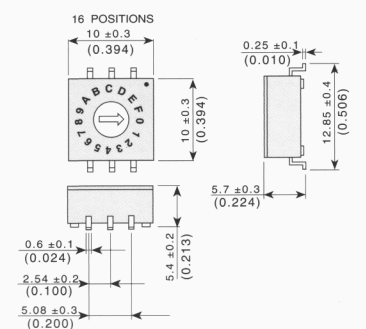
P.C.B. LAYOUT (TOP VIEW) ERDxxxF



ERD1xxxM Flat Type

SMT TYPE
(ONLY FLAT TYPE AVAILABLE)

P.C.B. LAYOUT (TOP VIEW) ERDxxxM



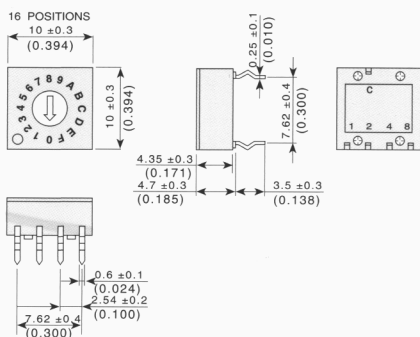
DIMENSIONS AND CIRCUITRY

Unit:mm(inch)

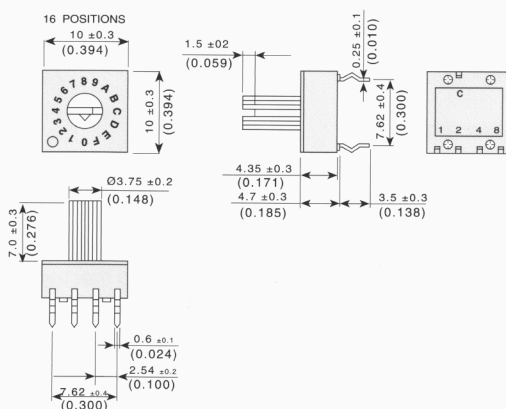
PIN OUT 1:4

ERD4xxxS Flat Type

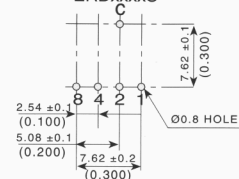
STANDARD TYPE



ERD5xxxS Shaft Type

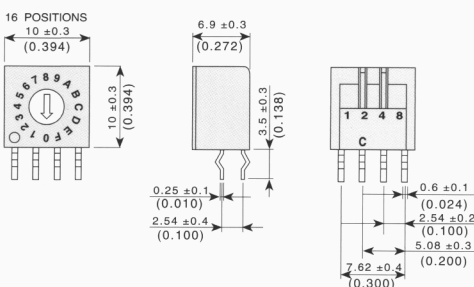


P.C.B. LAYOUT (TOP VIEW) ERDxxxS

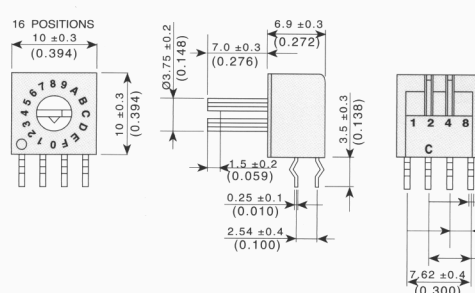


ERD4xxxR Flat Type

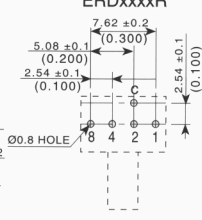
RIGHT ANGLE TYPE
PITCH: 2.54mm



ERD5xxxR Shaft Type

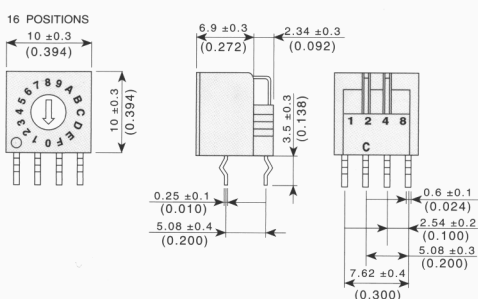


P.C.B. LAYOUT (TOP VIEW) ERDxxxR

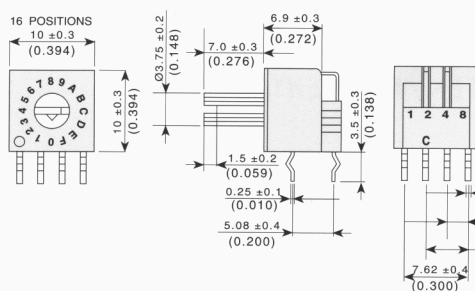


ERD4xxxF Flat Type

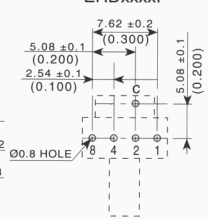
RIGHT ANGLE TYPE
PITCH: 5.08mm



ERD5xxxF Shaft Type

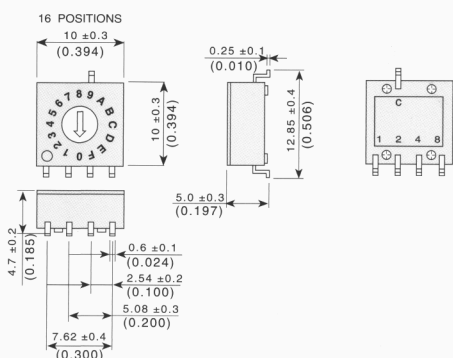


P.C.B. LAYOUT (TOP VIEW) ERDxxxF



ERD4xxxM Flat Type

SMT TYPE
(ONLY FLAT TYPE AVAILABLE)



P.C.B. LAYOUT (TOP VIEW) ERDxxxM

