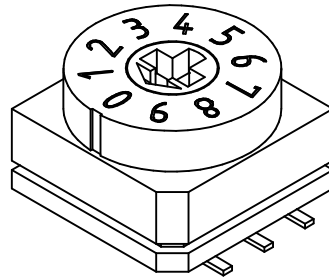
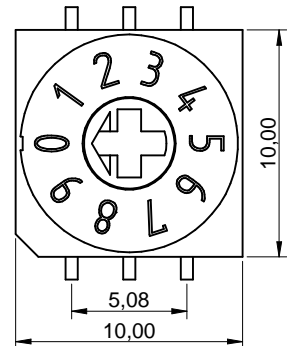


RECOMMENDED LAYOUT



TECHNICAL CHARACTERISTICS

SPECIFICATION

- >**Contact Rating:**
 - Switching: 150mA, 24VDC
 - Non-Switching: 400mA, 24VDC
- >**Contact Resistance:**
 - Initial: 80mOHM max.
 - After Life Test: 200mOHM max.
- >**Insulation Resistance:** min. 100MOHM at 250VDC
- >**Dielectric Strength:** 250VAC for 1 minute
- >**Operating Force:** 700g max.
- >**Life cycle:** 10.000 steps
- >**Position:** 10
- >**Actuator:** Cross type

MATERIAL

- >**Cover:** LCP UL 94V-0, color grey
- >**Base:** LCP UL 94V-0, color grey
- >**Actuator:** PA 66 UL 94V-0
- >**Contact:** Gold Plated
- >**Terminal:** Gold Plated

SOLDERING INFORMATION

- >**Terminal in SMD version**
- >**Reflow soldering according to JEDEC J-STD 020 Hot Air**

WASHABLE DEFINITION

Please do not submerge washable products into water or cleaning agents or put them in locations exposed to water or liquids completely. When cleaning by hand (brushing), please do not use excessive force on our switch to avoid malfunction afterwards, because you could deform function relevant areas or you could damage sealing functions. Do not clean washable series immediately after soldering. The cleaning agent may be absorbed into the switch through respiration while the switch cools.

ENVIRONMENTAL

- >**Storage condition:** -40°C ~ +85°C
- >**Operation condition:** -40°C ~ +85°C
- >**Compliance:** Lead Free, ROHS, Reach

PACKAGING INFORMATION

>Tape and Reel

Part number	Color of Actuator	Position	Code
428 521 520 810	light grey	10	Real Code
428 521 520 811	blue	10	complement code

		Real Code				
		C	1	2	4	8
10 Position	0	•				0
	1	•	•			1
	2	•		•		2
	3	•			•	3
	4	•	•			4
	5	•		•		5
	6	•			•	6
	7	•	•			7
	8	•		•		8
	9	•			•	9

		Complement Code				
		C	1	2	4	8
10 Position	0	•	•	•	•	0
	1	•	•	•	•	1
	2	•	•	•	•	2
	3	•	•	•	•	3
	4	•	•	•	•	4
	5	•	•	•	•	5
	6	•	•	•	•	6
	7	•	•	•	•	7
	8	•	•	•	•	8
	9	•	•	•	•	9

Scale - 3:1

This electronic component is designed and developed with the intention for use in general electronics equipments.

Before incorporating the components into any equipments in the field such as aerospace, aviation, nuclear control, submarine, transportation, (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc. where higher safety and reliability are especially required or if there is possibility of direct damage or injury to human body, Würth Elektronik must be asked for a written approval.

In addition, even electronic component in general electronic equipments, when used in electrical circuits that require high safety, reliability functions or performance, the sufficient reliability evaluation-check for the safety must be performed before by the user before usage.

				GENERAL TOLERANCE .x = +/- 0,2 .xx = +/- 0,15		Basic material	
				Date Name		DESCRIPTION	
				Drawn 09-11-05 Checked 09-11-05		Jelisarow Hsu	
						WS-ROSV Rotary Switch 10x10mm, 10 position, SMD version	
d	revised MatchCode	14-07-25	AL				
c	Washable Definition	14-03-05	DaF				
b	new contact rating	12-02-02	WJ				
a	warning text	11-09-30	WJ				
REV	FILE	DATE	BY	EDV NO 42852152081x.dft		Scale 3:1 Position Drawing.- No. 42852152081x System :Solid Edge V20	