



RECOMMENDED LAYOUT

Scale - 3:1

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:

Arrow 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

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
428 521 320 810	light grey	10	Real Code
428 521 320 811	blue	10	complement code

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

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

GENERAL TOLERANCE	Basic material		
	x = +/- 0,2	xx = +/- 0,15	
Projection			
WE WÜRTH ELEKTRONIK			
	Date	Name	DESCRIPTION
	Drawn	09-11-05	Jelisarow
	Checked		SwRotary
			WS-RAS Rotary Switch 10x10mm, 10 position, SMD version
b new contact rating	12-02-02	WJ	
a warning text	11-09-30	WJ	
REV	FILE	DATE	BY
			EDV NO 42852132081x.dft
			Scale 3:1 Position
			SIZE
			A4
			Drawing No. 42852132081x
			System: Solid Edge V20

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.