

HOW TO ORDER CUSTOM DRAWING

T-21 A C + DRAWING NUMBER (Max. 16 digits)

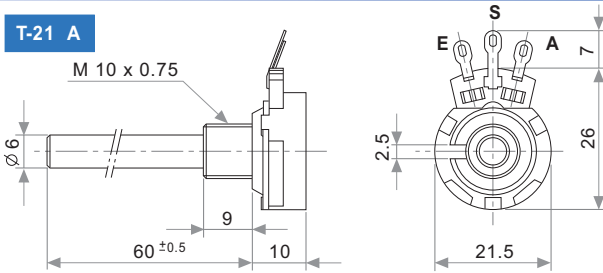
This way of ordering should be used for options which are not included in the "How to order" standard and optional extras.

STANDARD OPTIONS

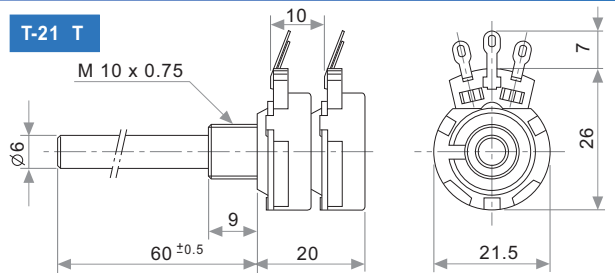
Shaft length 0 standard
 Detents Without
 Stereo matching Only for model "T" and upon request
 Switch No switch
 Nut & washer Without nut and washer

MODELS WITH METALIC SHAFTS

T-21 A

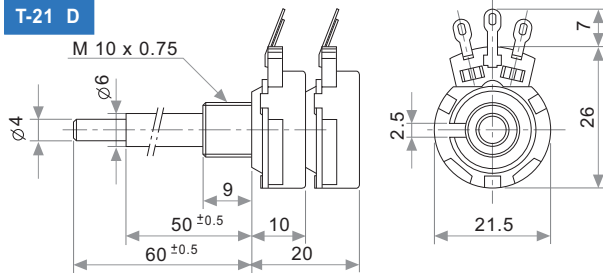


T-21 T

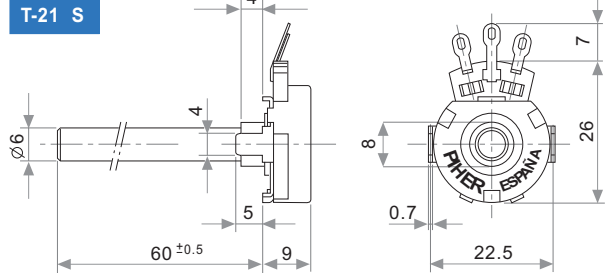


A = Initial
 S = Wiper
 E = Final

T-21 D

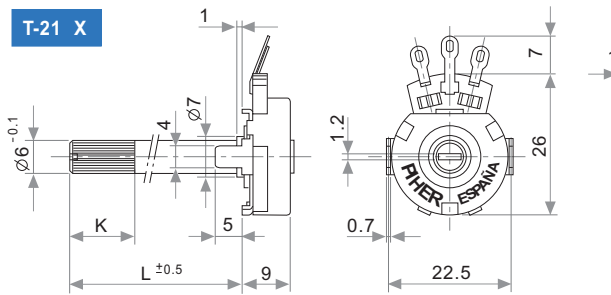


T-21 S

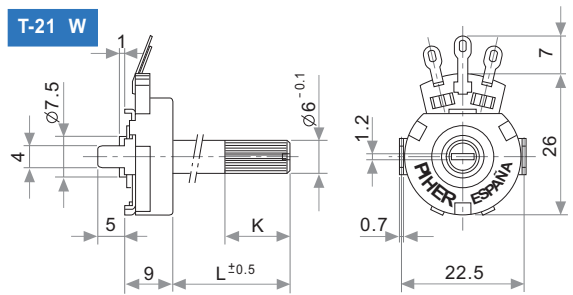


MODELS WITH PLASTIC SHAFTS

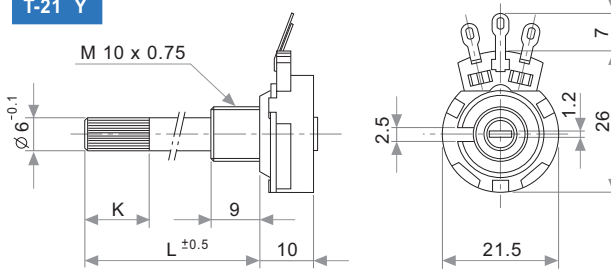
T-21 X



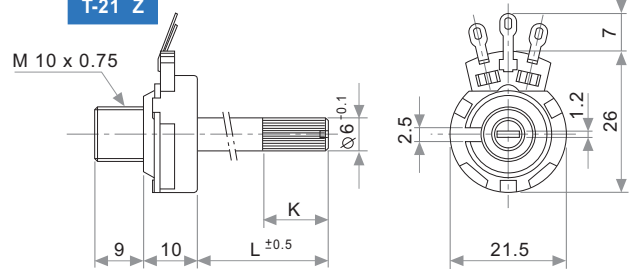
T-21 W



T-21 Y

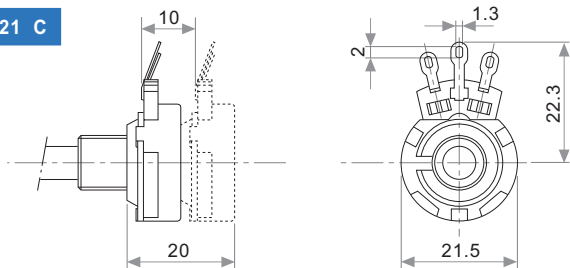


T-21 Z

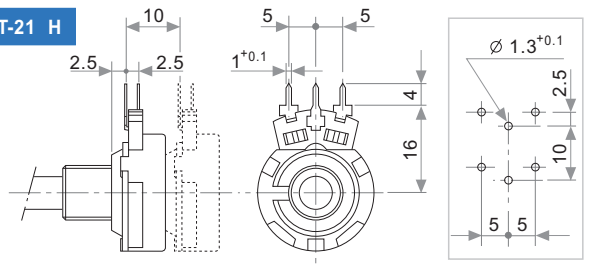


TERMINALS

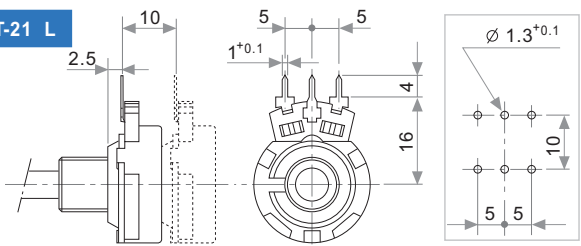
T-21 C



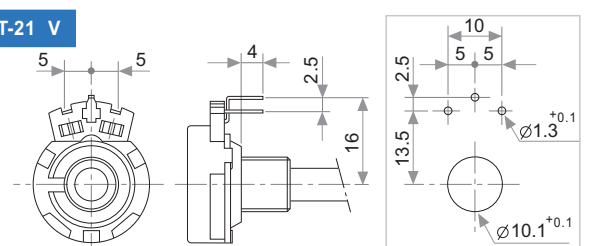
T-21 H



T-21 L



T-21 V



PLASTIC SHAFTS

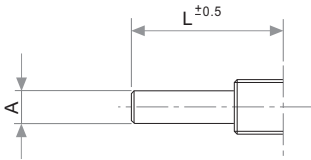
T-21 X/Y without Switch			
Knurling length	T-21 X	T-21 Y	CODE
K = 0	L = 2	/	P01
K = 6	L = 10	/	P02
K = 12	L = 16	L = 15	P03
K = 12	L = 26	L = 25	P04
K = 12	L = 36	L = 35	P05
K = 35	L = 46	L = 45	P06

T-21Y w/Sw F01		
Knurling length	T-21 Y	CODE
K = 5	L = 16	P10
K = 14.6	L = 25	P11
K = 35	L = 46	P12

T-21 W/Z without Switch			
Knurling length	T-21 W	T-21 Z	CODE
K = 12	L = 26	L = 26	P07
K = 12	L = 36	L = 36	P08
K = 12	L = 46	L = 46	P09

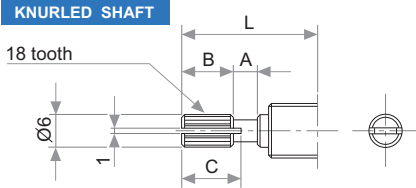
METALIC SHAFTS

PLAIN SHAFT



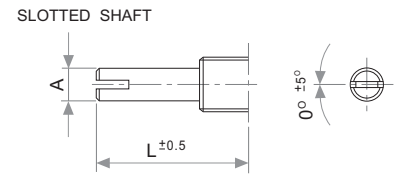
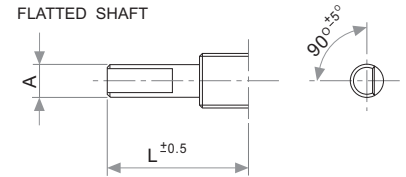
A	L	CODE
4	40	M04
6	60	M06
6.35	60	M07
4/6	50/60	M08

KNURLED SHAFT



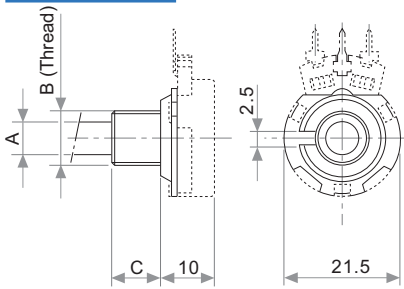
L	A	B	C	CODE
15	2	6	7	M11
20	2	10	11	M12
25	4	12	14	M13
30	4	12	14	M14
35	4	12	14	M15
40	4	12	14	M16

UNDER DRAWING



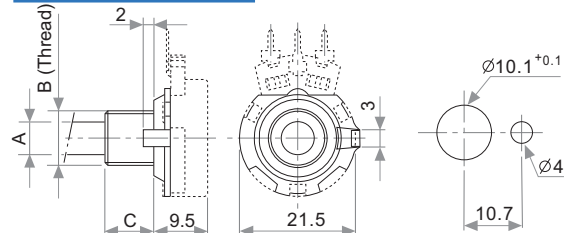
BUSHINGS

STANDARD



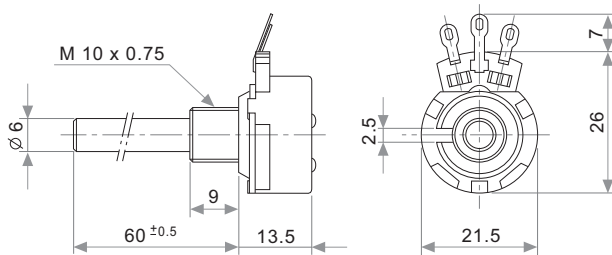
CODE	A	B	C
07	6	M10 x 0.75	9
08	6	M10 x 0.75	12
09	6	M10 x 0.75	19
14	6.35	M10 x 0.75	9

NON ROTARY PAWL

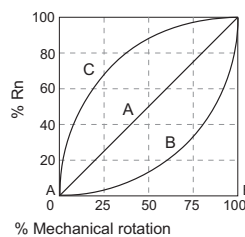


CODE	A	B	C
11	6	3/8" x 32 h.	9
12	6	3/8" x 32 h.	12
13	6.35	3/8" x 32 h.	9

DETENTS

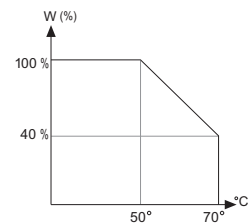


TAPERS



A: Lin.
B: Log.
C: Alog.

POWER RATING CURVE



TESTS

TYPICAL VARIATIONS

ELECTRICAL LIFE	1.000 h. 50°C; 0.25 W	±5 %
MECHANICAL LIFE* :	25.000 (10-15 CPM)	±3 % (Rn < 1 M)
TEMPERATURE COEFFICIENT	-25°C; +70°C	±300 ppm (Rn < 100 K)
THERMAL CYCLING	16 h. @ 85°C; 2h. @ -25°C	±2.5 %
DAMP HEAT	500 h. 40°C 95% HR	±5 %
VIBRATION (for each plane X,Y,Z)	2 h. @ 10 Hz - 55 Hz.	±2 %

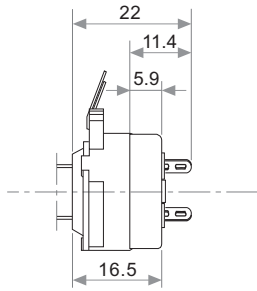
NOTE: Out of range values may not comply these results.

(*) only applicable to values ≥ 1K. For lower values please consult.

PACKAGING

Boxes of 150 / 200 pieces (160 x 110 x 85 mm.)

SWITCH F1



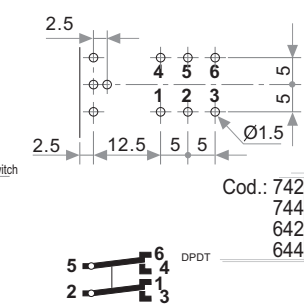
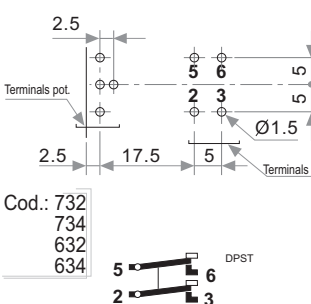
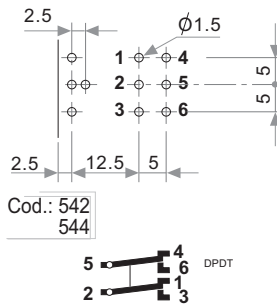
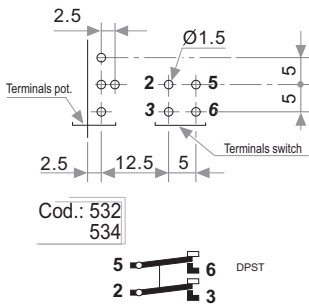
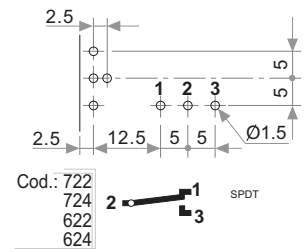
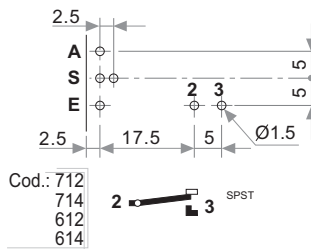
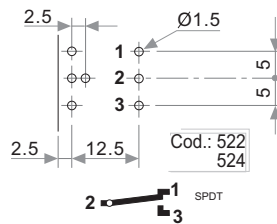
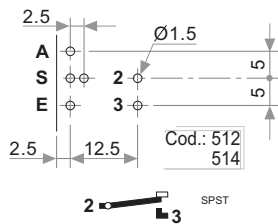
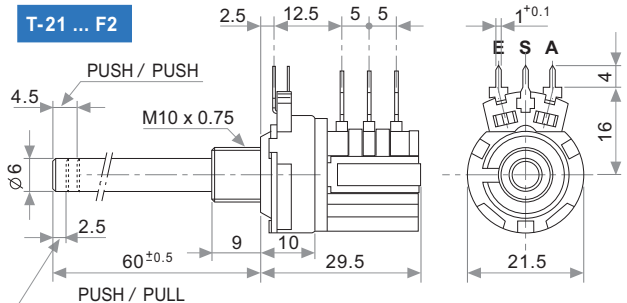
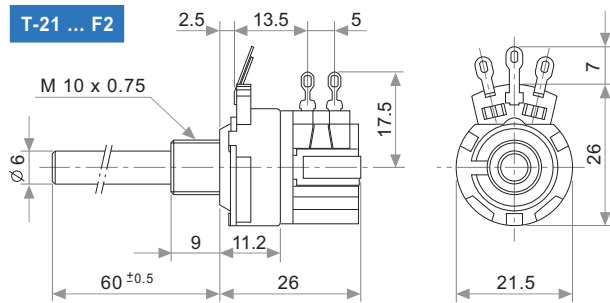
MECHANICAL & ELECTRICAL SPECIFICATIONS	F 1
OPERATING ANGLE	50° ±5°
OPERATING TORQUE	3-7 Ncm (4.2-9.8 in-oz)
MAXIMUM AXIAL CHARGE	80 N; 17 pounds
NOMINAL CURRENT	1A; 250 VAC
CONTACT RESISTANCE	≤ 25mΩ
TEST VOLTAGE (DIELECTRIC STRENGTH)	2000 V (50 Hz)

SWITCH F2

ELECTRICAL SPECIFICATIONS	F 2
SWITCH RATING	2 or 4A; 250 VAC
CONTACT RESISTANCE	≤ 25 mΩ
DIELECTRIC STRENGTH	2000 V
INSULATION RESISTANCE	100 MΩ
MECHANICAL SPECIFICATIONS	F 2
OPERATING ANGLE (ROTARY)	35° ± 5°
PUSH / PUSH OPERATING TRAVEL	4 mm.
PUSH / PULL OPERATING TRAVEL	2.5 mm.
OPERATING TORQUE (ROTARY)	2 to 9 Ncm. (2.8 to 12.7 oz/in)
OPERATING FORCE (Push/Push ; Push/Pull)	4 to 7 N (14 to 27oz)
MECHANICAL LIFE	10.000 cycles
STOP TORQUE	> 100 Ncm. (142 oz/in)

ROTARY

PUSH



I-21 HOW TO ORDER (only switch)

STANDARD

OPTIONAL

I-21	2	3	4	M06	0		
Series		Code	Switch model	Circuits	Shafts	Shaft spec. length	Nut & washer
I-21 (See note 1)		1	1	1	M04; L= 40 M06; L= 60 (See note 2)	XX.X (See note 3)	- TA = Loose nut & washer MTA = Assembled nut & washer MT - = Assembled nut - T - = Loose nut
		2	2	1			
		3	1	2			
		4	2	2			
Code	Switch model	Terminals		Code	Current	Voltage	
1	rotary switch	Solder lugs		2	2 A	250 V	
2	push/ push switch	Solder lugs		4	4 A	250 V	
3	push/ pull switch	Solder lugs					
5	rotary switch	PCB					
6	push/ push switch	PCB					
7	push/ pull switch	PCB					

NOTES:

- When only the switch is ordered (without potentiometer), it will be called "I -21" followed by the respective code.
- The shaft and bushing for "I -21" is:

COD.	A	B	L
M06	6	M10 x 0.75	60

- Only for special length and plain shaft (not knurled).
Example: E: Ø6 L= 24.5 M06 24.5 → special length
Flatted and slotted shafts, etc. will need drawing.

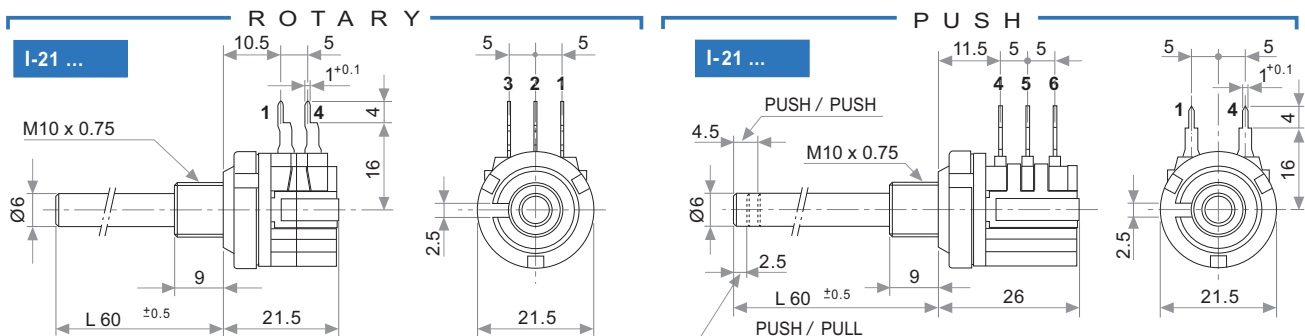
HOW TO ORDER CUSTOM DRAWING

I-21 + DRAWING NUMBER (Max. 16 digits)

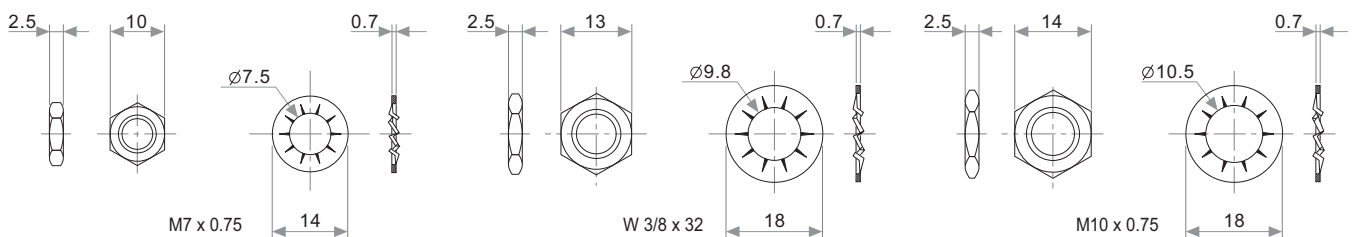
This way of ordering should be used for options which are not included in the "How to order" standard and optional extras.

STANDARD OPTIONS

Shaft length See note 2
Nut & washer Without nut and washer



NUT & WASHER



PACKAGING

Boxes of 100 pieces (160 x 110 x 85 mm.).

Disclaimer

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