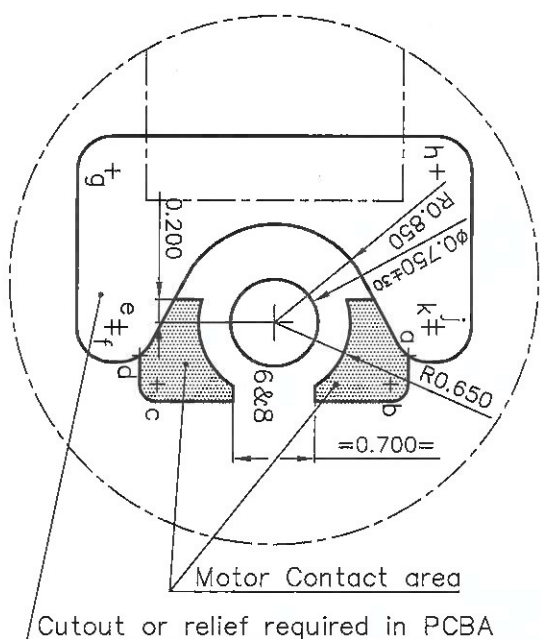


TECHNICAL DATA FOR TITAN (Bi-Directional) – T901A

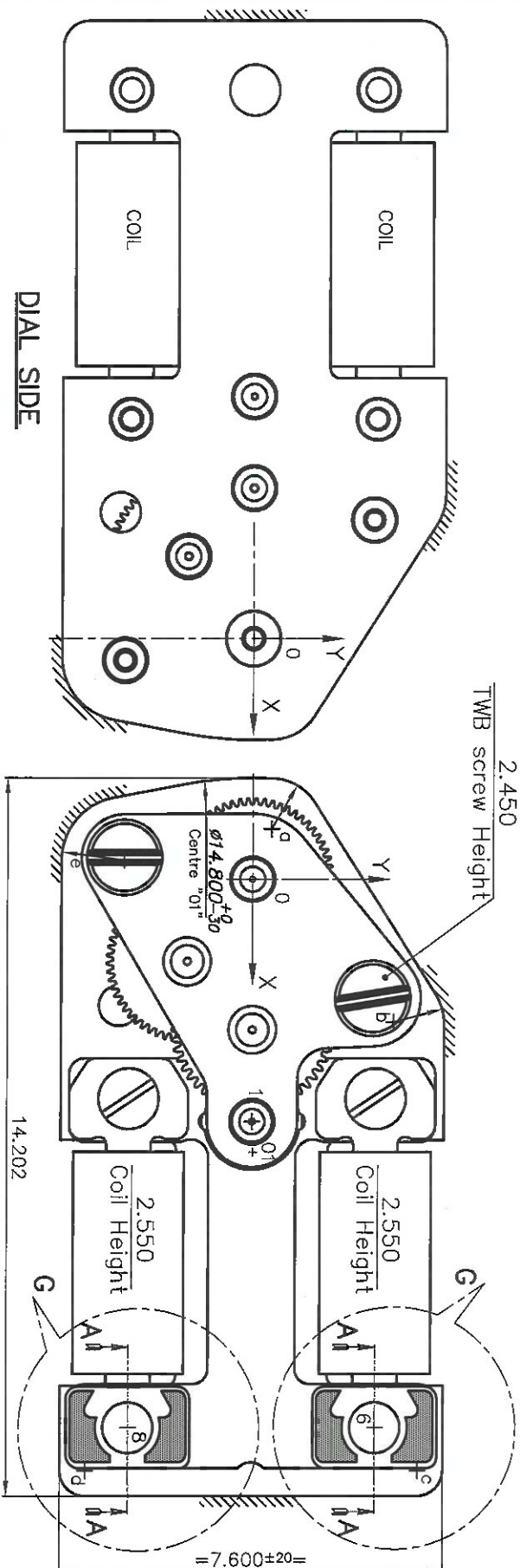
WATCH DIVISION



Detail at "G"

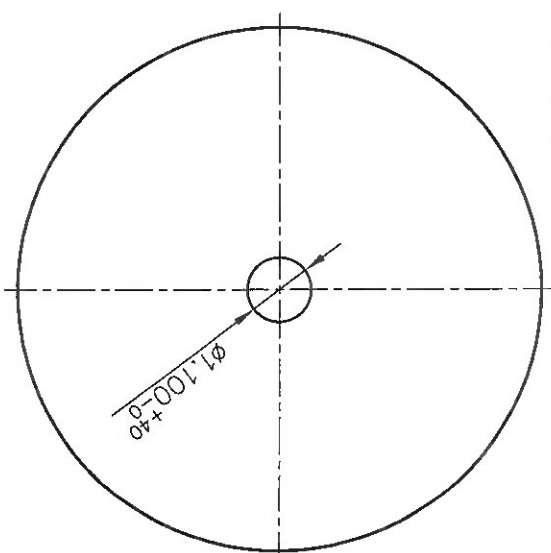
(Scale 16:1)

<div style="display: flex; justify-content: space-between;"> <div> <p>301A</p> </div> <div> </div> </div>	
Functions	1 Hand
Angular rotation per pulse	2°
No of steps for 360° rotation	180
Direction	BI-DIRECTIONAL
Movement size	14.202 x 7.600 mm
Movt Thickness	2.550 (on COIL)
No. of jewels	06
Coil resistance	1.350 K ohms
Effective temperature range	0 to +55°C
Shock resistance	As per NIHS 91/10
Resistance to magnetic field	18.8 Oe



BIRDGE SIDE

POS	X-AXIS	Y-AXIS	RADIUS
0	0.000	0.000	
01	5.395	0.014	
a	-0.995	0.374	R1.000
b	2.819	2.800	R1.000
c	11.697	3.300	R0.500
d	11.697	-3.300	R0.500
e	-0.377	-2.550	R1.250
6	10.847	2.450	
8	10.847	-2.450	

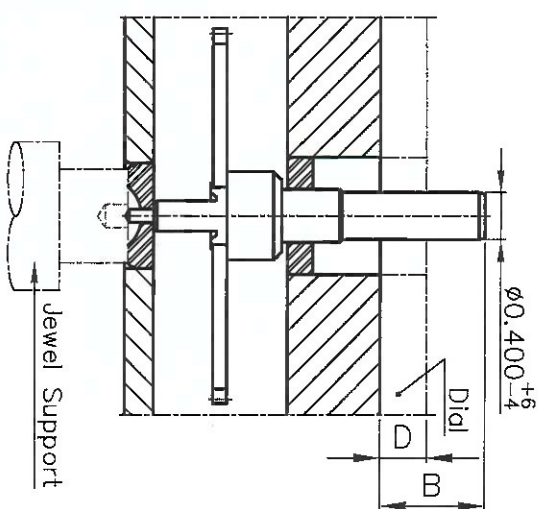


Dial details

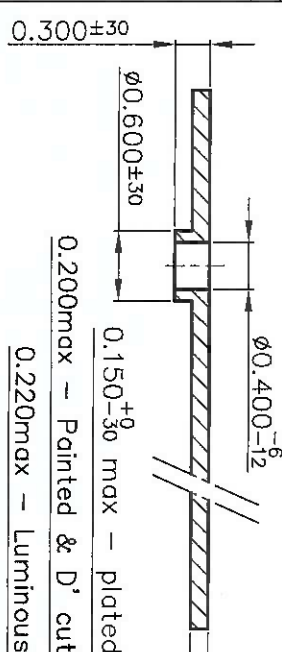
Note: Hands shape to be followed according to the dial holes

Hand fitting dimensions

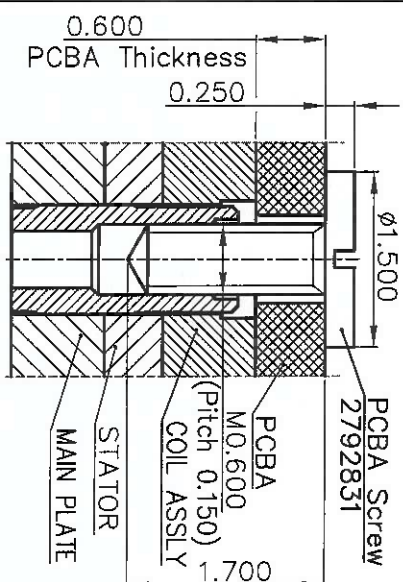
Calibre	B	D max
LOW	0.760	0.300
STD	0.900	0.400
HIGH-1	1.320	0.800
HIGH-2	1.830	1.200
HIGH-3	2.330	1.600



Hand Details



Section "A-A"



Note: PCBA Screw is not a part of Motor BOM

DESCRIPTION		HAND
Imbalance mg.mm		60
Inertia mg.mm ²		—
Weight mg (max).		350
Length mm(max)	Brass	15

Notes:

- 1) All dimensions are in mm.
- 2) Tolerances in μm .

a	Electrical Parameters updated	21.8.19	AF		
	for 0.140mm Pivot modification				
Index	Alteration	Date	Sign		

T-2946

a

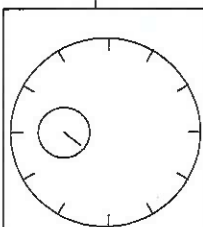
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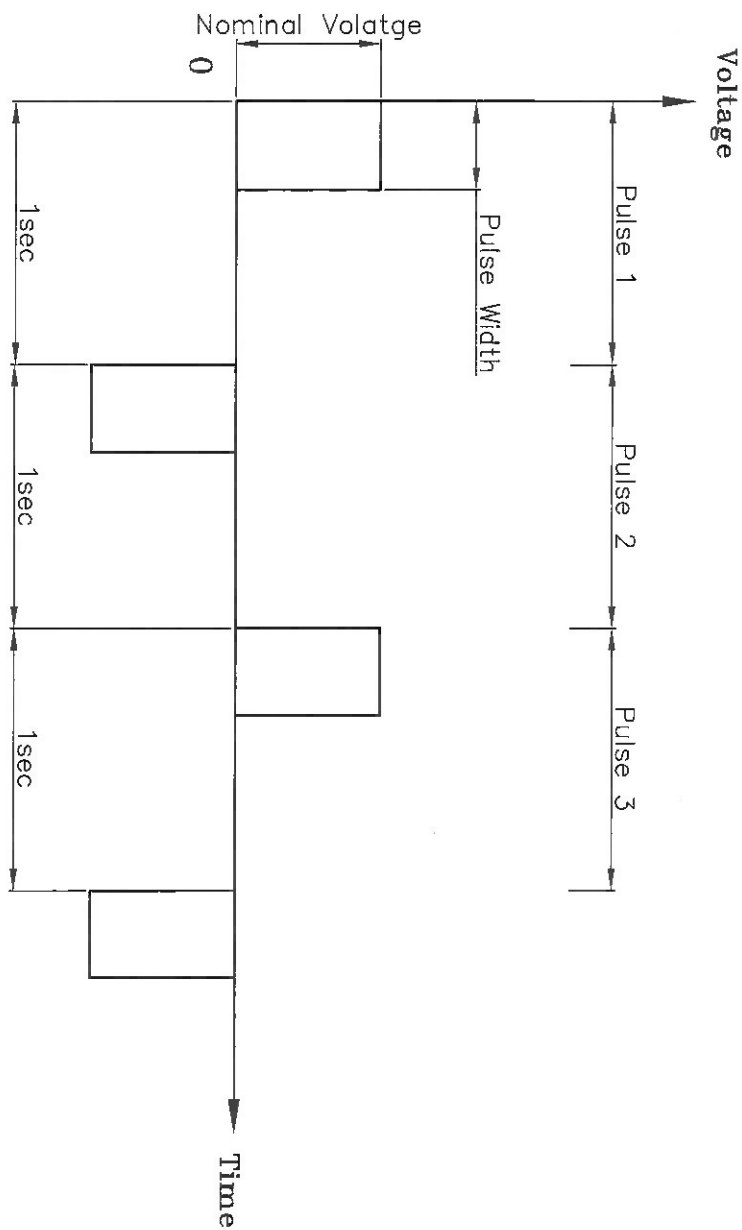


WATCH DIVISION

TECHNICAL DATA FOR TITAN (Bi-Directional) – T901A



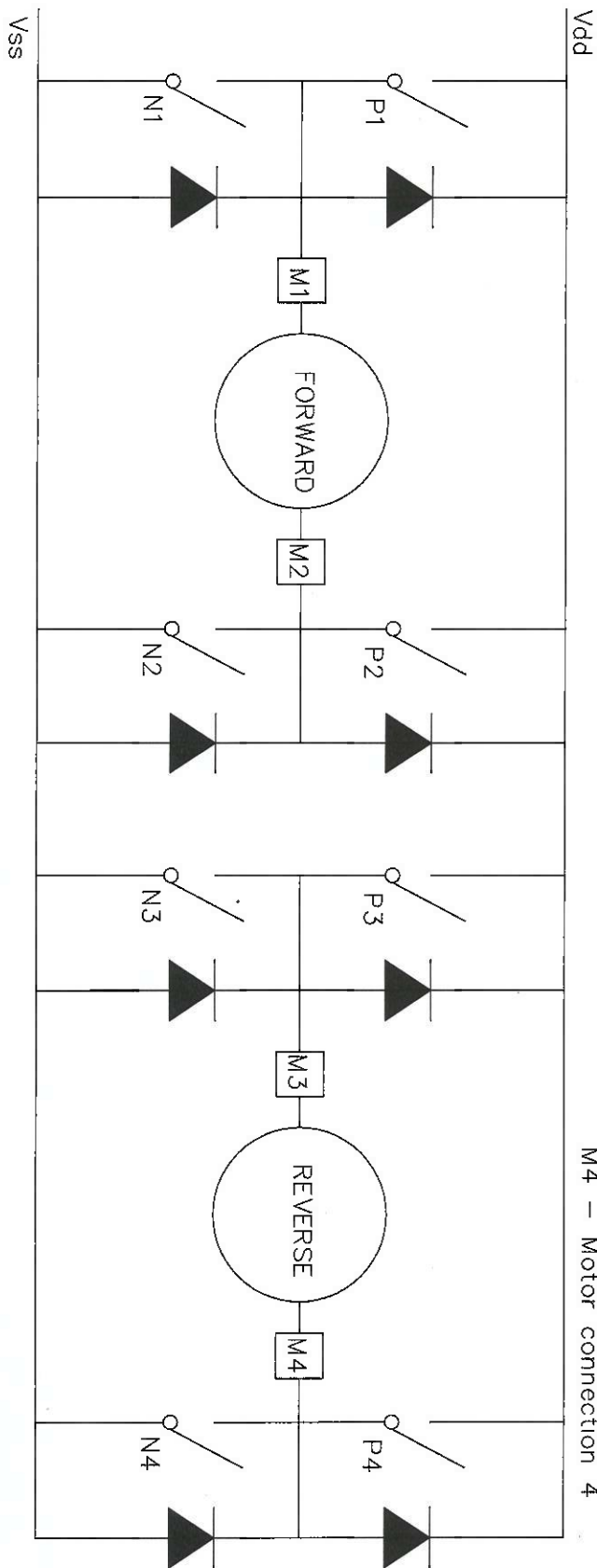
Wave forms



Motor driving parameters

SL	Description	Unit	Nominal Voltage (V)	
			2.10	3.00
01	Pulse Width	ms	4.5	3.0
02	Duty Cycle	%	100%	100%
03	Current consumption @ 64Hz	μA	335(Typ)~385(Max)	335(Typ)~385(Max)
04	Current Consumption @ 1Hz	μA	5.1(Typ)~5.3(Max)	4.9(Typ)~5.4(Max)
05	Driving torque (typ)	μNm	36 (Min)	36 (Min)
06	Voltage Range	V	1.6 ~ 2.5	1.8 ~ 4.0

Motor Driving Circuit



- M1 – Motor connection 1
- M2 – Motor connection 2
- M3 – Motor connection 3
- M4 – Motor connection 4

- Notes :
- 1) All dimensions are in mm.
 - 2) Tolerances in um.
 - 3) Jewel support to be provided while hand fixing
 - 4) Motor consumption is measured in WTSCHI AQ2

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Index	Alteration	Prepared	Checked	Date	Sign
Name					
Date					

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a