

REV.	REVISION RECORD	BY	DATE
0	ORIGIN	LDJ	1.8.2023

Technical drawing of a photoelectric switch assembly. The drawing includes three views: a front view, a side view, and a detail view of the photoelectric switch.

**Dimensions:**

- Overall length: 140
- Stroke: 124 (MAX STROKE=90)
- Mounting hole diameter:  $\varnothing 4.76$
- Mounting hole pitch: 22
- Mounting hole offset: 6
- Mounting hole diameter:  $\varnothing 2.8$  THR
- Mounting hole pitch:  $\varnothing 5 \nabla 2$
- Mounting hole offset: 25 $\pm 0.2$
- Mounting hole pitch: 4 $\times 25$  (=100)
- Mounting hole offset: 15
- Mounting hole pitch: 15 $\pm 0.2$
- Mounting hole offset: 5
- Mounting hole pitch: 12 $\pm 0.2$
- Mounting hole offset: 14 $\pm 0.2$
- Mounting hole pitch: 20
- Mounting hole offset: 20
- Mounting hole pitch: 320 $\pm 20$
- Mounting hole offset: 28.2MAX
- Mounting hole pitch: 28
- Mounting hole offset: 16
- Mounting hole pitch: 30
- Mounting hole offset: 20
- Mounting hole pitch: 320 $\pm 20$

**Photoelectric Switch Sequence Table:**

PHOTOELECTRIC SWITCH SEQUENCE		
PIN NO	BIPOLAR	LEADS
1	+5~24V	BRN
2	GND	BLU
3	SIGNAL LINE	BLK
4	N/A	WHT


**Connection Table:**

SPECIFICATION	CONNECTION
AMPS/PHASE	BIPOLAR
	0.50

**Labels:**


- PHOTOELECTRIC SWITCH
- 4-M2.5 $\nabla 5$
- 4-AWG28#
- R7

PHOTOELECTRIC SWITCH SEQUENCE		
PIN NO	BIPOLAR	LEADS
1	+5~24V	BRN
2	GND	BLU
3	SIGNAL LINE	BLK
4	N/A	WHT

MOTOR CONNECTION			
PIN NO	BIPOLAR	LEADS	WINDING
1	A+	RED	
2	A -	RED/WHT	
3	B+	GRN	
4	B -	GRN/WHT	

SPECIFICATION	CONNECTION	BIPOLAR
AMPS/PHASE		0.50
RESISTANCE/PHASE(Ohms)@25°C		5.00±10%
INDUCTANCE/PHASE(mH)@1KHz		1.50±20%
HOLDING TORQUE(Nm)[lb-in]		0.01[0.09]
STEP ANGLE(°)		1.80
STEP ACCURACY(NON-ACCUM)		±5.00%
LEAD(mm)[in]		2.54[0.10]
LINEAR TRAVEL/STEP(mm)[in]		0.0127[0.0005]
RATED LOAD CAPACITY(N)		60
MAX SPEED(mm/s)		38.1
POSITION ACCURACY(mm)		±0.02
AMBIENT TEMPERATURE		-20°C~50°C[-4°F~122°F]
INSULATION CLASS		B 130°C[266°F]
TEMPERATURE RISE		MAX.80°C

COMMENT:  
1.TMBF 6000h OR MORE @ 24V/300RPM  
2.INSULATION RESISTANCE  
(NORMAL TEMPERATURE AND HUMIDITY): 100 Mohm  
3.DIELECTRIC STRENGTH 500VAC FOR 1MIN.  
(BETWEEN THE MOTOR COILS AND THE MOTOR CASE )

FULL STEP 2 PHASE-Ex.,WHEN FACING MOUNTING END (X)						DIMENSIONS ARE IN MILLIMETERS.			
STEP	A+	B+	A-	B-	<div><div>↓</div><div>CW</div></div>	<div><div>↑</div><div>CCW</div></div>	TOLERANCES AS BELOW:		
1	+	+	-	- <th>DECIMALS</th> <th>ANGLES</th>			DECIMALS	ANGLES	
2	-	+	+	-			X	±0.5	±2°
3	-	-	+	+			X.X	±0.25	
4	+	-	-	+			X.XX	±0.13	
						THIRD ANGLE PROJECTION			
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						DRN	LDJ	1.8.2023	
						APVD	ZPJ	1.8.2023	

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# LINEAR ACTUATORS

LMD8S11GD05-090

REV.	0	SCALE	1:1	DWG NO.	A2653
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