



# PAN TILT

## TS-MPT-BLG SERIES

The MPT-BLG Series Pan & Tilt Unit is designed to perform positioning applications of various sensor units. It is designed for payloads up to 100 Kg.

There is  $\pm 10^\circ$  limit on the tilt axis  
Tilt drive arm place on the brake shaft and used.

When the tilt axis is desired to be lowered by  $90^\circ$ , the tilt adjustment handle limit is rotated. Tilt mechanical limit is turned off. It bring down in the direction of the arrow shown on the interface.

While taking it back within technical limits, the tilt adjustment handle return to its previous position with the upper interface. Tilt mechanical limit will be opened.

The brake can be used within  $90^\circ$  and mechanic limits.

### FEATURES

- Robust and compact design.
- There is  $\pm 10^\circ$  limit on the tilt axis
- Tilt drive arm place on the brake shaft and used.
- When the tilt axis is desired to be lowered by  $90^\circ$ , the tilt adjustment handle limit is rotated. Tilt mechanical limit is turned off. It bring down in the direction of the arrow shown on the interface.
- While taking it back within technical limits, the tilt adjustment handle return to its previous position with the upper interface. Tilt mechanical limit will be opened.
- The brake can be used within  $90^\circ$  and mechanic limits.



Payload Capacity  
up to 100 kg



Accuracy  
 $0,05^\circ$



Repeatability  
 $0,02^\circ$

# TECHNICAL DATA / TS-MPT-BLG01

Product Code	TS-MPT-MD-BLG01
Payload Capacity	100 kg
<b>Power Consumption</b>	
Max. Power Consumption	100 W
Standby Power Consumption	2 W
Heater Power	40 W
Operating Voltage Range	18-32 V
<b>Pan</b>	
Range of travel *	n × 360° (Continuous Rotation)
Max. Speed	36 °/s
Min. Speed	0.005°/s
<b>Tilt</b>	
Range of travel *	20° (+10°/-10°)
Tilt Motion	Manual
<b>Position Accuracy and Repeatability</b>	
Position Accuracy	0.05°
Position Repeatability	0.02°
Backlash	0.1°
<b>Rotation Limits</b>	
Software Limits	Available
Mechanical Limits	Available
<b>Encoder Type and Position Feedback</b>	
Encoder Type *	Absolute Encoder
Position Feedback	0.005°
<b>Operating Temperature</b>	
Working Temperature	-32°C to +55°C
Storage Temperature	-40°C to +60°C
<b>Drive Systems</b>	
Drive System (Pan)	Stepper Motor
Drive System (Tilt)	Manual
<b>Construction</b>	
Exterior Finish	Powder Coat Black (Default), Special Finishes Available
Weight	45 kg
Dimensions	420x440x288.7 mm
Payload Mounting Type	Top Mount
<b>Ambient Conditions</b>	
Min. Operating and Storage Temperature	MIL-STD-810G, Method 502.6 Procedure II and Procedure I
Max Operating and Storage Temperature	MIL-STD-810G, Method 501.6 Procedure II and Procedure I
Thermal Shock	MIL-STD 810G, Method 503.6 Procedure I-C
Moisture Resistance	MIL-STD 810G, Method 507.6 Procedure II
Rain Resistance	MIL-STD-810G, Method 506.6 Procedure I
Dust and Sand Resistance	MIL-STD-810G, Method 510.6 Procedure I and Procedure II
Icing and Freezing Rain Resistance	MIL-STD-810G, Method 521.3 Procedure I
Protection / IP rating	IP67

# TECHNICAL DATA / TS-MPT-BLG01

Control of Positioner Unit	
Command and Control	GUI-Joystick-Software
Protocol	TS-MPT Protocol and Pelco-D
Power Outputs to Payload *	
24 VDC - user on/off switchable	Optional
12 VDC - user on/off switchable	Optional
5 VDC - user on/off switchable	Optional
Instantly Monitoring	
Power On and Run Time Monitoring	Available
Voltage Monitoring	Available
Current Monitoring	Available
Communication Interfaces to Pantilt	
Serial	RS232 or RS422/RS485
IP	Optional
Connectors *	
Main Connector	D38999/20WD35PN

\* If you have other requirements or need further assistance, please reach out to us.

\*\* Configuration is available for particular lines including RF, SDI, HD-SDI, Fiber, etc.

\*\*\* The specified values apply to top mount setups.

**Please note:** Accessories such as cables and power supplies are not included in the package.

