DS-TMG420#EU
42 series barrier gate



DS-TMG420 series barrier gate is applicable to entrance and exit management. It is widely used in road toll stations, parking lots, communities, enterprise entrances and exits, etc. to manage the entering and exiting of vehicles and record vehicle passing times. It can be controlled automatically via parking lot management system, or via handle, remote controller, button, etc.

- The barrier gate features a split design, allowing for convenient and flexible assembly. The product consists of three main components: the barrier gate body, the pole, and the spring.
- Adopts integrated machine core. Parallel gear decelerates linkage arm transmission to ensure stability and efficiency.
- Supports convenient side installation with compact structure.
- Adopts quenching process for carbon steel gear to realize wear-resistant and impact-resistant functions and extend product life.
- Adopts small DC brushless motor with low noise to increase output torque and realize precise intelligent control.
- Supports rebound for obstacle and opening priority.
- Adopts DC variable frequency control to enable smooth operation with fast boom pole opening and slow boom pole closing.
- Supports event log to enable convenient monitoring.
- Supports multiple anti-fall modes such as IR, vehicle detectors, and radars.
- Supports fault code detection on the nixie tube, log record, and abundant status indicating. Based on the fault code displayed on the nixie tube, you can realize quickly problems locating and maintenance.
- Supports manually opening boom pole. You can turn hand wheel to keep barrier gate opening during power cutoff.
- Delayed boom pole closing (10 s delay time by default). Supports 99 shifts (initial status 2 s, 2 s gap between each shift).
- Supports auto boom pole opening during power cutoff. The barrier gate can open automatically to allow fire trucks in (optional components required).

▪ Specification

Barrier Housing	
Barrier Housing Material	SGCC
Barrier Housing Thickness	1.5 mm
Barrier Housing Door Thickness	1.2 mm
Barrier Housing Color	Iron gray
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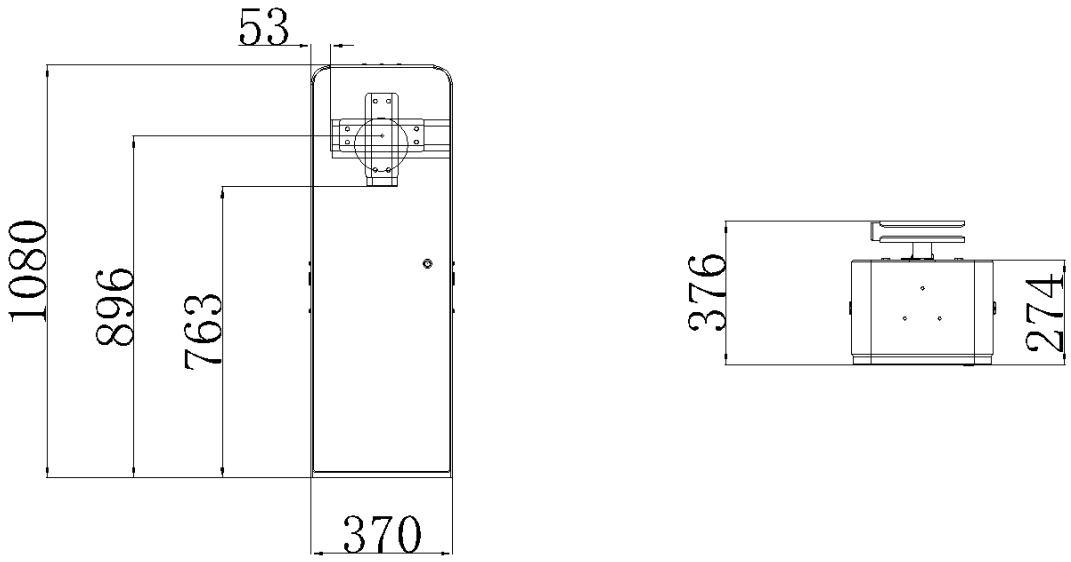
Boom Pole Installation Height	896 mm
Barrier Gate General	
Falling Speed	3m octagonal pole: 3s 3m/24V light pole: 4.5s 4m/24V light pole: 5.5s 6m/24V light pole: 6.5s
Boom Pole Direction	Right by default
Motor Type	DC brushless motor
Rising Speed	3m octagonal pole: 3s 3m/24V light pole: 4.5s 4m/24V light pole: 5.5s 6m/24V light pole: 6.5s
Matched Boom Pole Type	DS-TMG420-H: TMG001-3(3m octagonal), DS-TMG001-3(3m/24V light), DS-TMG001-3(4m/24V light) DS-TMG420-L: DS-TMG001-3(6m/24V light)
Boom Pole Falling Delay	10 s by default (configurable), min. 2 s (every 2 s followed a gap)
Number of Cycles	5,000,000
Working Voltage	100-120VAC / 200-240VAC (default 220-240V , switchable)
Consumption	With octagonal pole: Max. 125 W With boom pole with LED strip light: Max. 141 W
Temperature and Humidity	Temperature: -30 °C to 60 °C (-22 °F to 140 °F),Humidity: ≤ 90%
Rising Boom Pole for Poweroff	Optional, supported by default
Interface	
RS-485	1 group
Rising to Limit	1 group
Falling to Limit	1 group
Open	1 group
Close	1 group
Stop	1 group
IR/Vehicle Detector/Radar	1 group
Traffic Signal Light	1 group, external power supply required, max. 220 VAC supported
Approval	
RF	CE-RED EN 300220-1 V3.1.1 EN 300220-2 V3.1.1 EN 301489-1 V2.2.3 EN 301489-3 V2.1.1 EN IEC 62311: 2020

EMC	CE-EMC： EN 55032: 2015/A11: 2020 + A1: 2020, EN IEC 61000-3-2: 2019/A1: 2021, EN 61000-3-3: 2013 + A1: 2019/A2: 2021, EN 50130-4: 2011 + A1: 2014
Security	CE-LVD: EN 62368-1: 2014/A11: 2017 CB: IEC 62368-1: 2014 IEC 62368-1: 2018
Environment	ROHS
Protection	IP54, IK09
Package	
Barrier Housing Dimensions (L × W × H)	1080 × 370 × 376 mm (42.51 × 14.57 × 14.80 inch)
Body Weight	43 ± 3 kg (94.8 ± 6.61 lb.)
Body Dimensions (with Package, Without Boom Pole) (L × W × H)	1266 × 504 × 626 mm (49.84 × 19.84 × 24.65 inch)
Body Weight (with Package, Without Boom Pole)	47 ± 3 kg (103.61 ± 6.61 lb.)

▪ Dimension



▪ Accessory

▪ Included

DS-TMG012-A1	**DS-TMG060-42**	**DS-TMG050**

▪ **Optional**

L700/1100(barrier)	DS-TMG023	DS-TMG022	DS-TVL221-1-6D	TMG080-3
				

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