DS-TMG520#EU
Barrier gates with straight boom pole



DS-TMG52X series barrier gate is applicable to entrance and exit management. It is widely used in road toll station, parking lot, community, enterprise entrance and exit, 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, buttons, etc.

- DC frequency conversion. The rising and falling speeds can be adjusted independently. The boom pole can rise in high speed to let the vehicle pass quickly.
- The boom pole can fall in low speed to avoid hitting vehicle and pedestrian.
- High protection level. The chassis is produced with 2 mm SGCC in numerically-controlled precision. The surface is coated with plastic powder which is anti-UV, antistatic, non-peeling, and non-fading. The dustproof and waterproof level conforms to IP54.
- Multiple control modes. Rising priority. The boom pole can be controlled via relay, remote controller, and software command.
- The boom pole direction is adjustable from left to right, or from right to left.
- When the power is cut off, the barrier gate will automatically lift the rod to ensure safety.
- Auto lock. Even when the power is cut off, you can use tool to keep the barrier gate working.

▪ Specification

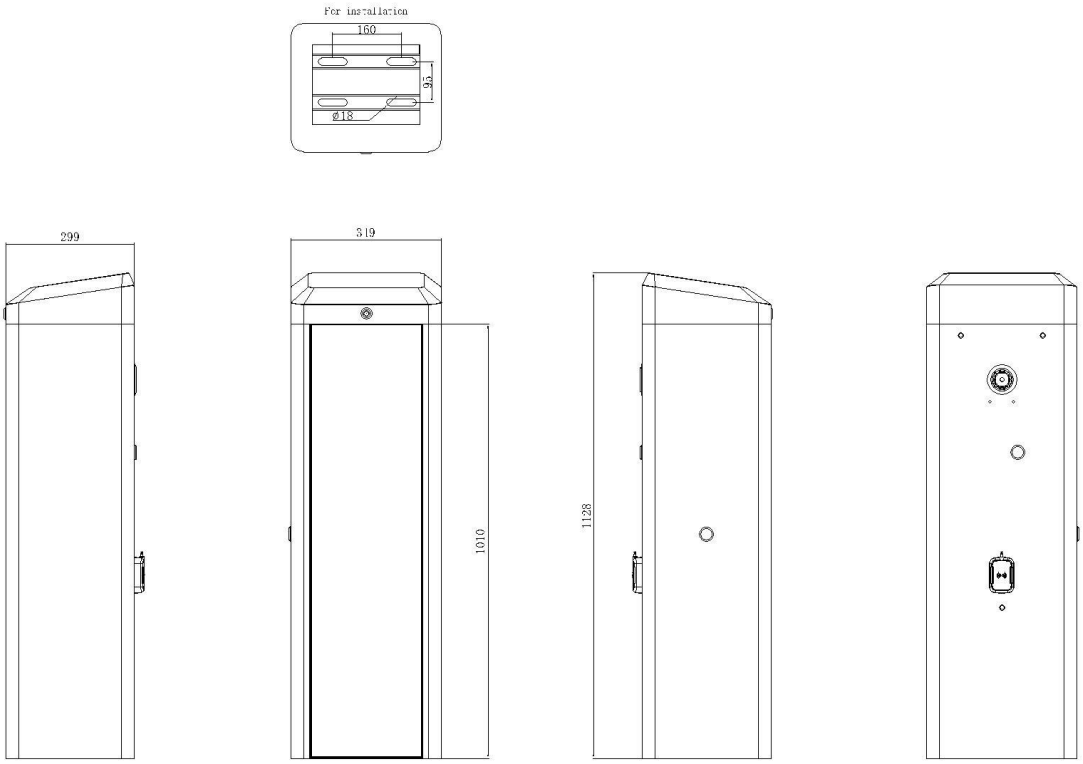
Barrier Housing	
Barrier Housing Material	SGCC
Barrier Housing Thickness	2.0 mm
Barrier Housing Door Thickness	1.5 mm
Barrier Housing Color	Iron gray
Barrier Housing Door Color	Iron gray
Boom Pole Installation Height	880 mm
Barrier Gate General	
Matched Boom Pole Type	Octagonal boom pole: 3 to 6 m Strip Light Pole: 3 to 4 m
Rising/Falling Speed	DS-TMG520-H(3m): Raising: 0.9S(Default) Adjustable 0.9S, 1.2S, 2S Falling: 3S(Default) Adjustable 1.5S, 2S, 3S DS-TMG520-M(4m): Raising: 1.5S(Default) Adjustable 1.5S, 2S, 2.5S Falling: 3.5S(Default) Adjustable 2.5S, 3S, 3.5S DS-TMG520-L(6m): Raising: 4S(Default) Adjustable 4S, 5S, 6S Falling: 6S(Default) Adjustable 4S, 5S, 6S DS-TMG520-M(4m telescopic pole): Raising: 2S(Default) Adjustable 2S, 2.5S Falling: 3.5S(Default) Adjustable 2.5S, 3S, 3.5S DS-TMG520-L(5m telescopic pole): Raising: 4S(Default) Adjustable 4S, 5S, 6S Falling: 6S(Default) Adjustable 4S, 5S, 6S DS-TMG520-L(6m telescopic pole): Raising: 4S(Default) Adjustable 4S, 5S, 6S Falling: 6S(Default) Adjustable 4S, 5S, 6S
Boom Pole Direction	right by default, direction switchable
Boom Pole Falling Delay	10 s by default (configurable), min. 10 s (every 10 s followed a gap)
Motor Type	DC brushless motor
Number of Cycles	5000000
Working Voltage	220 VAC ± 15%
Remote Controller Frequency	433 MHz
Current	Max. 4 A
Consumption	300 W
Temperature and Humidity	-30 °C to 70 °C (-22 °F to 158 °F)
Rising Boom Pole for Poweroff	Optional, supported by default
Interface	
Rising to Limit	1 group

Falling to Limit	1 group
Open	1 group
Close	1 group
Stop	1 group
IR/Inductive Loop/Radar	1 group
RS-485	1 group
Traffic Signal Light	1 group, external power supply required, max. 220 VAC supported
Network	1 group (reserved)
Boom Pole	
Boom Pole Type	Octagonal Straight Pole
Boom Pole Material	AL6061
Boom Pole Color	White background with red bar
Boom Pole Dimensions	2 m octagonal boom pole: 98 × 45 × 2000 mm (3.86 × 1.77 × 78.74 inch) 3 m octagonal boom pole: 98 × 45 × 3000 mm (3.86 × 1.77 × 118.11 inch) 4 m octagonal boom pole: 98 × 45 × 4000 mm (3.86 × 1.77 × 157.48 inch) 5 m octagonal boom pole: 119 × 55 × 5000 mm (4.69 × 2.17 × 196.85 inch) 6 m octagonal boom pole: 119 × 55 × 6000 mm (4.69 × 2.17 × 236.22 inch) 3 m boom pole with LED light bar: 95 × 49 × 3013 mm (3.74 × 1.93 × 118.62 inch) 4 m boom pole with LED light bar: 95 × 49 × 4013 mm (3.74 × 1.93 × 157.99 inch) 4 m octagonal telescopic boom pole: 110 × 44 × 2970 mm (4.33 × 1.73 × 116.93 inch) 5 m octagonal telescopic boom pole: 110 × 44 × 3470 mm (4.33 × 1.73 × 136.61 inch) 6 m octagonal telescopic boom pole: 110 × 44 × 6000 mm (4.33 × 1.73 × 236.22 inch) 2 m anti-collision round boom pole: 80 × 80 × 2000 mm (3.15 × 3.15 × 78.74 inch) 3 m anti-collision round boom pole: 80 × 80 × 3000 mm (3.15 × 3.15 × 118.11 inch) 4 m anti-collision round boom pole: 80 × 80 × 4000 mm (3.15 × 3.15 × 157.48 inch)
Boom Pole Weight	2 m octagonal boom pole: 2.5 ± 0.3 kg (5.51 ± 0.66 lb.) 3 m octagonal boom pole: 2.8 ± 0.3 kg (6.17 ± 0.66 lb.) 4 m octagonal boom pole: 3.45 ± 0.3 kg (7.60 ± 0.66 lb.) 5 m octagonal boom pole: 5.9 ± 0.3 kg (13.00 ± 0.66 lb.) 6 m octagonal boom pole: 6.8 ± 0.3 kg (15.21 ± 0.66 lb.) 3 m boom pole with LED light bar: 3.4 ± 0.3 kg (7.50 ± 0.66 lb.) 4 m boom pole with LED light bar: 4.4 ± 0.3 kg (9.70 ± 0.66 lb.) 4 m octagonal telescopic boom pole: 4.42 ± 0.3 kg (9.74 ± 0.66 lb.) 5 m octagonal telescopic boom pole: 4.85 ± 0.3 kg (10.69 ± 0.66 lb.) 6 m octagonal telescopic boom pole: 5.65 ± 0.3 kg (12.46 ± 0.66 lb.) 2 m anti-collision round boom pole: 2.5 ± 0.3 kg (5.51 ± 0.66 lb.) 3 m anti-collision round boom pole: 3.5 ± 0.3 kg (7.71 ± 0.66 lb.) 4 m anti-collision round boom pole: 4.5 ± 0.3 kg (9.92 ± 0.66 lb.)

Boom Pole Dimensions (with Package)	2 m octagonal boom pole: 115 × 60 × 2020 mm (4.53 × 2.36 × 79.53 inch) 3 m octagonal boom pole: 115 × 60 × 3020 mm (4.53 × 2.36 × 118.90 inch) 4 m octagonal boom pole: 115 × 60 × 4020 mm (4.53 × 2.36 × 158.27 inch) 5 m octagonal boom pole: 140 × 65 × 5030 mm (5.51 × 2.56 × 198.03 inch) 6 m octagonal boom pole: 140 × 65 × 6030 mm (5.51 × 2.56 × 237.40 inch) 3 m boom pole with LED light bar: 100 × 60 × 3035 mm (3.94 × 2.36 × 120.07 inch) 4 m boom pole with LED light bar: 100 × 60 × 4035 mm (3.94 × 2.36 × 159.45 inch) 4 m octagonal telescopic boom pole: 120 × 51 × 3100 mm (4.72 × 2.01 × 122.05 inch) 5 m octagonal telescopic boom pole: 120 × 51 × 3500 mm (4.72 × 2.01 × 137.80 inch) 6 m octagonal telescopic boom pole: 120 × 51 × 4005 mm (4.72 × 2.01 × 157.68 inch) 2 m anti-collision round boom pole: 90 × 90 × 2030 mm (3.54 × 3.54 × 79.92 inch) 3 m anti-collision round boom pole: 90 × 90 × 3030 mm (3.54 × 3.54 × 119.29 inch) 4 m anti-collision round boom pole: 90 × 90 × 4030 mm (3.54 × 3.54 × 158.66 inch)
Boom Pole Weight (with Package)	2 m octagonal boom pole: 2.37 ± 0.3 kg (5.22 ± 0.66 lb.) 3 m octagonal boom pole: 3.11 ± 0.3 kg (6.86 ± 0.66 lb.) 4 m octagonal boom pole: 3.965 ± 0.3 kg (8.74 ± 0.66 lb.) 5 m octagonal boom pole: 7.01 ± 0.3 kg (15.45 ± 0.66 lb.) 6 m octagonal boom pole: 8.245 ± 0.3 kg (18.18 ± 0.66 lb.) 3 m boom pole with LED light bar: 4.0 ± 0.3 kg (8.82 ± 0.66 lb.) 4 m boom pole with LED light bar: 5.2 ± 0.3 kg (11.46 ± 0.66 lb.) 4 m octagonal telescopic boom pole: 5.11 ± 0.3 kg (11.27 ± 0.66 lb.) 5 m octagonal telescopic boom pole: 6.23 ± 0.3 kg (13.73 ± 0.66 lb.) 6 m octagonal telescopic boom pole: 7.25 ± 0.3 kg (15.98 ± 0.66 lb.) 2 m anti-collision round boom pole: 2.7 ± 0.3 kg (5.95 ± 0.66 lb.) 3 m anti-collision round boom pole: 4.3 ± 0.3 kg (9.48 ± 0.66 lb.) 4 m anti-collision round boom pole: 5.8 ± 0.3 kg (12.79 ± 0.66 lb.)
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

Package	
Barrier Housing Dimensions (L × W × H)	1248 × 486 × 480 mm (49.1 × 19.1 × 18.9 inch)
Body Weight	59.3 ± 5 kg (130.7 ± 11.0 lb.)
Body Dimensions (with Package, Without Boom Pole) (L × W × H)	1266 × 504 × 626 mm (49.84 × 19.84 × 24.65 inch)

▪ Dimension



▪ Accessory

▪ Included

DS-TMG012-A1	DS-TMG060-52	DS-TMG050
		

▪ Optional

DS-TMG001-3	DS-TMG022	DS-TMG023	DS-TVL221-1-6D	EEBracket-L800-1000(barrier)
				

TMG080-3


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support@hikvision.com

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