

**DS-TMG520/B****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 cold rolled steel sheets 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.
- Multiple anti-hitting modes via induction, IR, pressure wave, etc.
- The boom pole direction is adjustable from left to right, or from right to left.
- Anti-condensation. The electric motor is in low consumption even when the barrier gate is not in working status, which will keep the motor in normal temperature. So even in cold weather, the lube will not be frozen to guarantee the normal running of barrier gate.
- Auto lock. Even when the power is cut off, you can use tool to keep the barrier gate working.
- Integrated with arrow indicator to show barrier gate status

## ▪ Specification

| Barrier Housing                                               |                                                                                                                                                                             |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Barrier Housing Material                                      | SGCC                                                                                                                                                                        |
| Barrier Housing Thickness                                     | 2.0 mm                                                                                                                                                                      |
| Barrier Housing Door Thickness                                | 1.5 mm                                                                                                                                                                      |
| Barrier Housing Color                                         | Orange red                                                                                                                                                                  |
| Boom Pole Installation Height                                 | 880 mm                                                                                                                                                                      |
| Body Indicators                                               | Arrow Indicator                                                                                                                                                             |
| Barrier Gate General                                          |                                                                                                                                                                             |
| Matched Boom Pole Type                                        | Cylinder boom pole: 1 to 4 m<br>anti-collision Octagonal straight boom pole: 1 to 6 m<br>Octagonal telescopic boom pole: 4 to 6 m<br>Boom pole $\geq$ 5 m: with spindle rod |
| 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                                                                                                                                                                     |
| Remote Controller Frequency                                   | 433 MHz                                                                                                                                                                     |
| Current                                                       | Max. 1.5 A                                                                                                                                                                  |
| Consumption                                                   | 300 W                                                                                                                                                                       |
| Temperature and Humidity                                      | Temperature: -30 °C to 70 °C (-22 °F to 158 °F)                                                                                                                             |
| Rising Boom Pole for Poweroff                                 | Optional, not supported by default                                                                                                                                          |
| 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)                                                                                                                            |
| Barrier Gate                                                  |                                                                                                                                                                             |
| Duty Cycle                                                    | 100%                                                                                                                                                                        |
| 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                                                                                                             |
| LED Indicators                                                | 1 group                                                                                                                                                                     |
| Network                                                       | 1 group (reserved)                                                                                                                                                          |

| Approval             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| RF                   | CE-RED<br>EN 300220-1 V3.1.1<br>EN 300220-2 V3.1.1<br>EN 301489-1 V2.2.3<br>EN 301489-3 V2.1.1<br>EN IEC 62311: 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| EMC                  | CE-EMC:<br>EN 55032: 2015 + A11: 2020 + A1: 2020,<br>EN IEC 61000-3-2: 2019 + A1: 2021,<br>EN 61000-3-3: 2013 + A1: 2019 + A2: 2021,<br>EN 50130-4: 2011 + A1: 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Security             | CE-LVD:<br>EN 62368-1: 2014 + A11: 2017<br>CB:<br>IEC 62368-1: 2014<br>IEC 62368-1: 2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Environment          | ROHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Protection           | IP54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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 straight boom pole: 98 × 45 × 2000 mm (3.86 × 1.77 × 78.74 inch)<br>3 m octagonal straight boom pole: 98 × 45 × 3000 mm (3.86 × 1.77 × 118.11 inch)<br>4 m octagonal straight boom pole: 98 × 45 × 4000 mm (3.86 × 1.77 × 157.48 inch)<br>5 m octagonal straight boom pole: 119 × 55 × 5000 mm (4.69 × 2.17 × 196.85 inch)<br>6 m octagonal straight boom pole: 119 × 55 × 6000 mm (4.69 × 2.17 × 236.22 inch)<br>3 m boom pole with LED strip light: 95 × 49 × 3013 mm (3.74 × 1.93 × 118.62 inch)<br>4 m boom pole with LED strip light: 95 × 49 × 4013 mm (3.74 × 1.93 × 157.99 inch)<br>4 m octagonal telescopic boom pole: 110 × 44 × 2970 mm (4.33 × 1.73 × 116.93 inch)<br>5 m octagonal telescopic boom pole: 110 × 44 × 3470 mm (4.33 × 1.73 × 136.61 inch)<br>6 m octagonal telescopic boom pole: 110 × 44 × 6000 mm (4.33 × 1.73 × 236.22 inch)<br>2 m anti-collision cylinder boom pole: 80 × 80 × 2000 mm (3.15 × 3.15 × 78.74 inch)<br>3 m anti-collision cylinder boom pole: 80 × 80 × 3000 mm (3.15 × 3.15 × 118.11 inch)<br>4 m anti-collision cylinder boom pole: 80 × 80 × 4000 mm (3.15 × 3.15 × 157.48 inch) |

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Boom Pole Weight                    | 2 m octagonal straight boom pole: $2.5 \pm 0.3$ kg ( $5.51 \pm 0.66$ lb.)<br>3 m octagonal straight boom pole: $2.8 \pm 0.3$ kg ( $6.17 \pm 0.66$ lb.)<br>4 m octagonal straight boom pole: $3.45 \pm 0.3$ kg ( $7.60 \pm 0.66$ lb.)<br>5 m octagonal straight boom pole: $5.9 \pm 0.3$ kg ( $13.00 \pm 0.66$ lb.)<br>6 m octagonal straight boom pole: $6.8 \pm 0.3$ kg ( $15.21 \pm 0.66$ lb.)<br>3 m boom pole with LED strip light: $3.4 \pm 0.3$ kg ( $7.50 \pm 0.66$ lb.)<br>4 m boom pole with LED strip light: $4.4 \pm 0.3$ kg ( $9.70 \pm 0.66$ lb.)<br>4 m octagonal telescopic boom pole: $4.42 \pm 0.3$ kg ( $9.74 \pm 0.66$ lb.)<br>5 m octagonal telescopic boom pole: $4.85 \pm 0.3$ kg ( $10.69 \pm 0.66$ lb.)<br>6 m octagonal telescopic boom pole: $5.65 \pm 0.3$ kg ( $12.46 \pm 0.66$ lb.)<br>2 m anti-collision round boom pole: $2.5 \pm 0.3$ kg ( $5.51 \pm 0.66$ lb.)<br>3 m anti-collision round boom pole: $3.5 \pm 0.3$ kg ( $7.71 \pm 0.66$ lb.)<br>4 m anti-collision round boom pole: $4.5 \pm 0.3$ kg ( $9.92 \pm 0.66$ lb.)                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Boom Pole Dimensions (with Package) | 2 m octagonal straight boom pole: $115 \times 60 \times 2020$ mm ( $4.53 \times 2.36 \times 79.53$ inch)<br>3 m octagonal straight boom pole: $115 \times 60 \times 3020$ mm ( $4.53 \times 2.36 \times 118.90$ inch)<br>4 m octagonal straight boom pole: $115 \times 60 \times 4020$ mm ( $4.53 \times 2.36 \times 158.27$ inch)<br>5 m octagonal straight boom pole: $140 \times 65 \times 5030$ mm ( $5.51 \times 2.56 \times 198.03$ inch)<br>6 m octagonal straight boom pole: $140 \times 65 \times 6030$ mm ( $5.51 \times 2.56 \times 237.40$ inch)<br>3 m boom pole with LED strip light: $100 \times 60 \times 3035$ mm ( $3.94 \times 2.36 \times 120.07$ inch)<br>4 m boom pole with LED strip light: $100 \times 60 \times 4035$ mm ( $3.94 \times 2.36 \times 159.45$ inch)<br>4 m octagonal telescopic boom pole: $120 \times 51 \times 3100$ mm ( $4.72 \times 2.01 \times 122.05$ inch)<br>5 m octagonal telescopic boom pole: $120 \times 51 \times 3500$ mm ( $4.72 \times 2.01 \times 137.80$ inch)<br>6 m octagonal telescopic boom pole: $120 \times 51 \times 4005$ mm ( $4.72 \times 2.01 \times 157.68$ inch)<br>2 m anti-collision round boom pole: $90 \times 90 \times 2030$ mm ( $3.54 \times 3.54 \times 79.92$ inch)<br>3 m anti-collision round boom pole: $90 \times 90 \times 3030$ mm ( $3.54 \times 3.54 \times 119.29$ inch)<br>4 m anti-collision round boom pole: $90 \times 90 \times 4030$ mm ( $3.54 \times 3.54 \times 158.66$ inch) |
| Boom Pole Weight (with Package)     | 2 m octagonal straight boom pole: $2.37 \pm 0.3$ kg ( $5.22 \pm 0.66$ lb.)<br>3 m octagonal straight boom pole: $3.11 \pm 0.3$ kg ( $6.86 \pm 0.66$ lb.)<br>4 m octagonal straight boom pole: $3.965 \pm 0.3$ kg ( $8.74 \pm 0.66$ lb.)<br>5 m octagonal straight boom pole: $7.01 \pm 0.3$ kg ( $15.45 \pm 0.66$ lb.)<br>6 m octagonal straight boom pole: $8.245 \pm 0.3$ kg ( $18.18 \pm 0.66$ lb.)<br>3 m boom pole with LED strip light: $4.0 \pm 0.3$ kg ( $8.82 \pm 0.66$ lb.)<br>4 m boom pole with LED strip light: $5.2 \pm 0.3$ kg ( $11.46 \pm 0.66$ lb.)<br>4 m octagonal telescopic boom pole: $5.11 \pm 0.3$ kg ( $11.27 \pm 0.66$ lb.)<br>5 m octagonal telescopic boom pole: $6.23 \pm 0.3$ kg ( $13.73 \pm 0.66$ lb.)<br>6 m octagonal telescopic boom pole: $7.25 \pm 0.3$ kg ( $15.98 \pm 0.66$ lb.)<br>2 m anti-collision round boom pole: $2.7 \pm 0.3$ kg ( $5.95 \pm 0.66$ lb.)<br>3 m anti-collision round boom pole: $4.3 \pm 0.3$ kg ( $9.48 \pm 0.66$ lb.)<br>4 m anti-collision round boom pole: $5.8 \pm 0.3$ kg ( $12.79 \pm 0.66$ lb.)                                                                                                                                                                                                                                                                                                                                                                                                           |

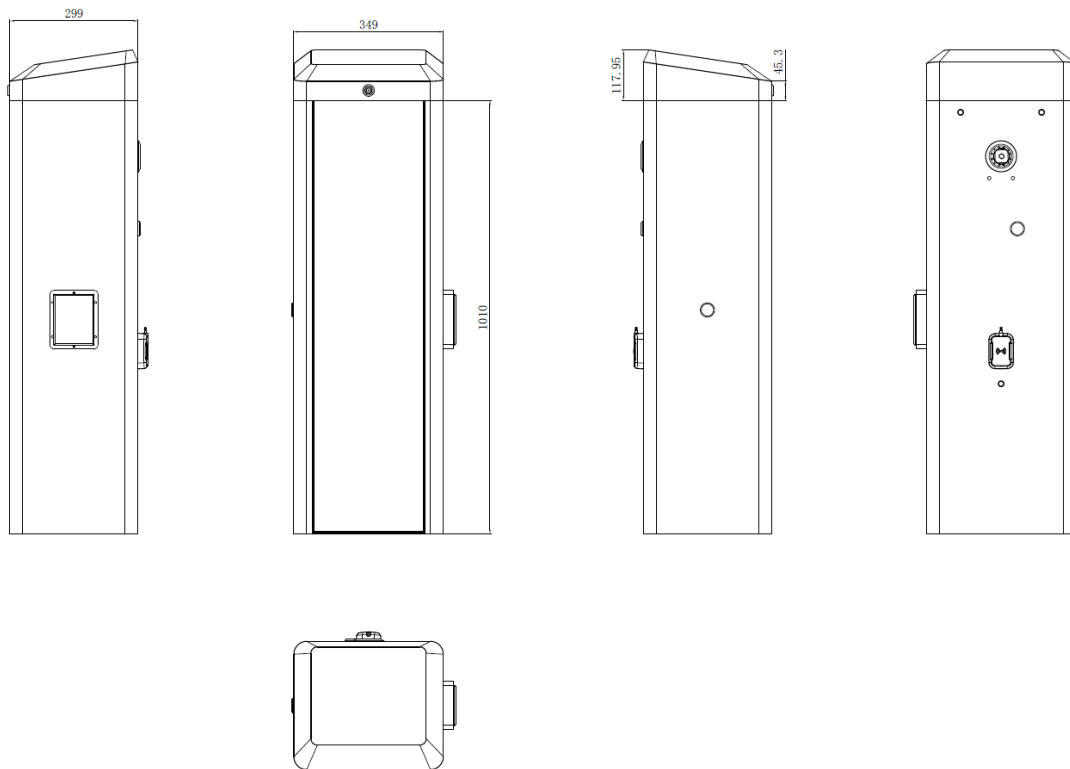
#### ▪ Available Model

DS-TMG520-H/B(3m octagonal)

DS-TMG520-M/B(4m octagonal)

DS-TMG520-L/B(6m octagonal)

## ▪ Dimension



## ▪ Accessory

### ▪ Included

| DS-TMG001-5<br>Octagonal<br>Straight Boom<br>Pole                                   | DS-TMG012-5<br>Remote<br>Controller                                                 | DS-TMG050<br>Pull Rod Antenna<br>Assembly                                            |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |

### ▪ Optional

|                                                                                     |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| EEBracket-L800-100<br>0(barrier)<br>Barrier Pole                                    | TMG080-3<br>TMG080-3                                                                | DS-TMG060-52<br>Barrier Gate<br>Supercapacitor<br>Board                               |
|    |    |     |
| DS-TMG022<br>Coil Vehicle<br>Detector                                               | DS-TMG023<br>Coil                                                                   | DS-TVL221-1-6D<br>Entrance & Exit<br>Signal Light                                     |
|  |  |  |

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