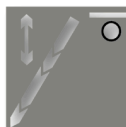


# EU Declaration of Conformity

according to EN 13241-1 "Doors - Product Standard"



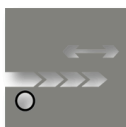
FULL SERVICE



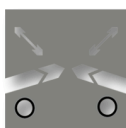
OPERATOR SYSTEMS  
FOR GARAGE DOORS



OPERATOR SYSTEMS  
FOR SECTIONAL DOORS



OPERATOR SYSTEMS  
FOR SLIDING GATES



OPERATOR SYSTEMS  
FOR HINGED GATES



OPERATOR SYSTEMS  
FOR ROLLER SHUTTERS



PARC BARRIER  
SYSTEMS



ELECTRONIC  
CONTROL UNITS



PRODUCT SERVICE



ACCESSORIES

## Marantec Antriebs- und Steuerungstechnik GmbH & Co. KG

herewith declares, that the industrial sectional door operators

**Dynamic xs.plus/FU/SG/FVR, Dynamic xs.base  
with the control units Control x.plus, Control x.base and the  
connection units Special 802/803/804/805 x.plus  
with optosensor sets**

specially with regard to the electrical qualities and the feature "operating forces"  
according of EN 13241-1  
are in conformity with the requirements of the following EU directives:

- Construction Products Directive (89/106/EWG)
- Machinery Directive (98/37/EG)
- Low Voltage Directive (73/23/EWG)
- EMC Directive (89/336/CEE)

Applied standards and technical specifications:

- EN 13241-1 Doors product standard
- EN 12453 Power-operated doors – requirements
- EN 12445 Power-operated doors – test methods

The above mentioned door operators can be combined with the DELTA sectional doors  
of the manufacturer Lomax.

The permitted combinations door travel speed/operator have to be considered according to the annex.  
Mounting and initial operations as well as regular safety tests and maintenance of door and operator  
have to be carried out according to the installation and operating instructions.

For initial tests according to EN 13241-1, the following approved testing institutes have been  
involved:

- TÜV Nord GmbH, Am TÜV 1, D-30519 Hannover

Klaus Goldstein  
Marienfeld, 19.11.2009

Marantec Antriebs- und Steuerungstechnik GmbH & Co. KG  
Remser Brook 11 · 33428 Marienfeld · Germany

**Marantec**

Door operators ► automatically the best choice

[www.marantec.com](http://www.marantec.com)

**Zulässige Kombinationen Torgeschwindigkeit | Antrieb**  
**Permitted combinations door travel speed | operator**

| <b>Produkt-Beschreibung   product description</b> |                           |
|---|---------------------------|
| Getriebemotor   Machinery                         | Dynamic xs.plus/FU/SG/FVR |
| Steuerung   Control unit                          | Control x.plus            |
| SKS-Auswertung   Sensor                           | Optosensor                |
| Schließkantensicherung   Bottom seal              | Marantec #63823           |
| Tor   Door [kg]                                   | 550                       |

| <b>Mechanische Daten   mechanical data</b> |    |    |    |    |
|--|----|----|----|----|
| Nenndrehzahl [UPM]   Rotation [rpm]        | 19 | 19 | 24 | 24 |

| <b>Achskettentrieb   axel chain drive</b> |     |     |     |     |
|---|-----|-----|-----|-----|
| Untersetzung   Reduction                  | 1,2 | 1,0 | 1,2 | 1,0 |

| <b>Seiltrommeldurchmesser   diameter cable drums</b> | <b>Geschwindigkeit   Speed 240 mm/s</b> |     |     |     |
|--|---|-----|-----|-----|
| max. [mm]  |   |     |     |     |
| 110  | 91                                      | 109 | 115 | 138 |
| 124  | 103                                     | 123 | 130 | 156 |
| 138  | 114                                     | 137 | 144 | 173 |
| 166  | 138                                     | 165 | 174 | 209 |
| 175  | 145                                     | 174 | 183 | 220 |
| 210  | 174                                     | 209 | 220 |     |
| 239  | 198                                     | 238 |     |     |
| 286  | 237                                     |     |     |     |
| 289  | 240                                     |     |     |     |

**Zulässige Kombinationen Torgeschwindigkeit | Antrieb**  
**Permitted combinations door travel speed | operator**

| <b>Produkt-Beschreibung   product description</b> |                           |
|---|---------------------------|
| Getriebemotor   Machinery                         | Dynamic xs.plus/FU/SG/FVR |
| Steuerung   Control unit                          | Control x.plus            |
| SKS-Auswertung   Sensor                           | Optosensor                |
| Schließkantensicherung   Bottom seal              | Marantec #73969-95 mm     |
| Tor   Door [kg]                                   | 550                       |

| <b>Mechanische Daten   mechanical data</b> |    |    |    |    |
|--|----|----|----|----|
| Nenndrehzahl [UPM]   Rotation [rpm]        | 19 | 19 | 24 | 24 |

| <b>Achskettentrieb   axel chain drive</b> |     |     |     |     |
|---|-----|-----|-----|-----|
| Untersetzung   Reduction                  | 1,2 | 1,0 | 1,2 | 1,0 |

| <b>Seiltrommeldurchmesser   diameter cable drums</b> | <b>Geschwindigkeit   Speed 310 mm/s</b> |     |     |     |
|--|---|-----|-----|-----|
| max. [mm]  |   |     |     |     |
| 110  | 91                                      | 109 | 115 | 138 |
| 124  | 103                                     | 123 | 130 | 156 |
| 138  | 114                                     | 137 | 145 | 173 |
| 166  | 138                                     | 165 | 174 | 209 |
| 175  | 145                                     | 174 | 183 | 220 |
| 210  | 174                                     | 209 | 220 | 264 |
| 239  | 198                                     | 238 | 250 | 300 |
| 286  | 237                                     | 285 | 299 |     |
| 289  | 240                                     | 288 | 303 |     |
| 302  | 250                                     | 300 |     |     |
| 347  | 288                                     |     |     |     |
| 362  | 300                                     |     |     |     |
| 365  | 303                                     |     |     |     |

**Zulässige Kombinationen Torgeschwindigkeit | Antrieb**  
**Permitted combinations door travel speed | operator**

| <b>Produkt-Beschreibung   product description</b> |                           |
|---|---------------------------|
| Getriebemotor   Machinery                         | Dynamic xs.plus/FU/SG/FVR |
| Steuerung   Control unit                          | Control x.plus            |
| SKS-Auswertung   Sensor                           | Kontaktleiste 8,2 KΩ      |
| Schließkantensicherung   Bottom seal              | Marantec #65292           |
| Tor   Door [kg]                                   | 550                       |

| <b>Mechanische Daten   mechanical data</b> |    |    |    |    |
|--|----|----|----|----|
| Nenndrehzahl [UPM]   Rotation [rpm]        | 19 | 19 | 24 | 24 |

| <b>Achskettentrieb   axel chain drive</b> |     |     |     |     |
|---|-----|-----|-----|-----|
| Untersetzung   Reduction                  | 1,2 | 1,0 | 1,2 | 1,0 |

| <b>Seiltrommeldurchmesser   diameter cable drums</b> | <b>Geschwindigkeit   Speed 270 mm/s</b> |     |     |     |
|--|---|-----|-----|-----|
| max. [mm]  |   |     |     |     |
| 110  | 91                                      | 109 | 115 | 138 |
| 124  | 103                                     | 123 | 130 | 156 |
| 138  | 114                                     | 137 | 144 | 173 |
| 166  | 138                                     | 165 | 174 | 209 |
| 175  | 145                                     | 174 | 183 | 220 |
| 210  | 174                                     | 209 | 220 | 264 |
| 239  | 198                                     | 238 | 250 |     |
| 286  | 237                                     |     |     |     |
| 289  | 240                                     |     |     |     |
| 302  | 250                                     |     |     |     |