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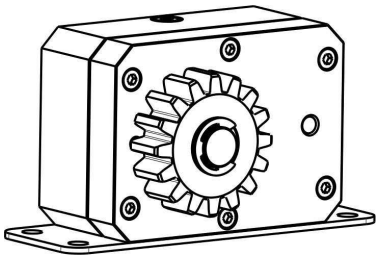
CONTROLGIR 30 - APE-147/4009

1. Descripción



The CONTROLGIR-30 rotating brake has been designed to regulate and control the speed of the door or gate in installations when the door or gate is not hung vertically and opening or closing must be controlled against gravity for safety reasons. The shock absorber only provides resistance in one rotational direction; the opposite direction has free movement.
This accessory can be used on automatic doors or gates with a module 6 rack. CONTROLGIR-30 is made of anticorrosive materials, aimed to be used outdoors.

2. Dimensions and technical characteristics.

Technical Characteristics	CONTROLGIR-30
COG MODULE	M4
Nº OF TEETH	Z16
PRIMITIVE DIAMETER	Dp 64
TYPE OF LIQUID	SILICONE 3000
SERVICE TEMPERATURE	-15ºC +70ºC
MAXIMUM WEIGHT	30 Nm
BRAKE DIRECTION	LEFT OR RIGHT
LOAD ADJUSTMENT	YES

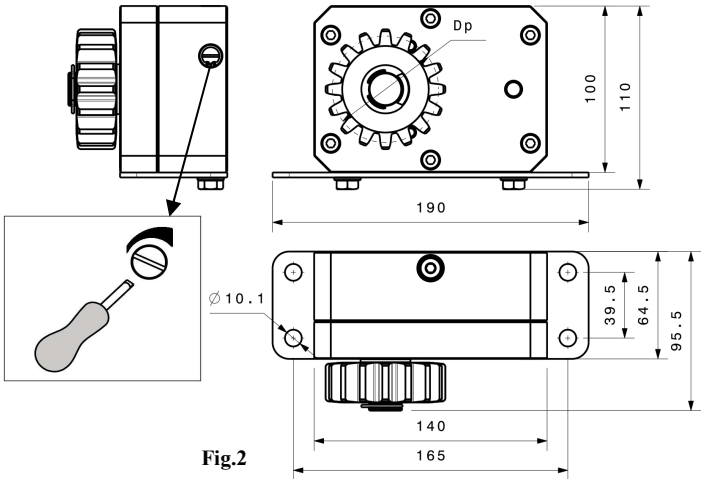


Fig.2

3. Assembly instructions.

3.1 Changing brake direction.

To change the brake direction you must remove the cir-clip (Fig.3), remove the cog (Fig.4) turn it round as per (Fig.5). Replace the cir-clip.

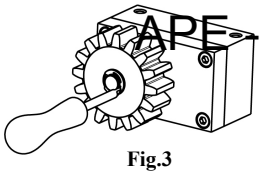


Fig.3

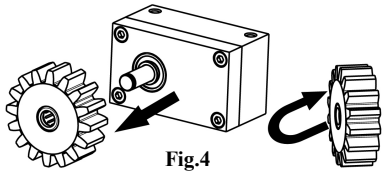


Fig.4

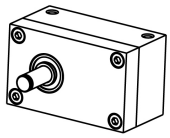
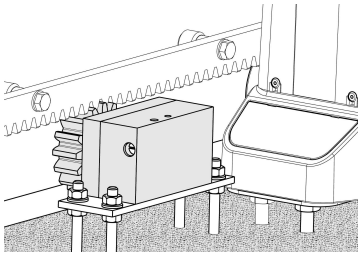


Fig.5

3.2 Assembly.

CONTROLGIR-30 must be placed as close as possible to the control mechanism (Fig.6) and adjusted to the correct height, leaving one millimeter of clearance between the cog and the rack (Fig.7).
The speed setting on a non-motorized gate must be a maximum of 12 m/min (meters per minute).
The speed adjustment in a motorized door must take the same time or 2 seconds less than with the motor, without considering the soft stop.

Fig.6



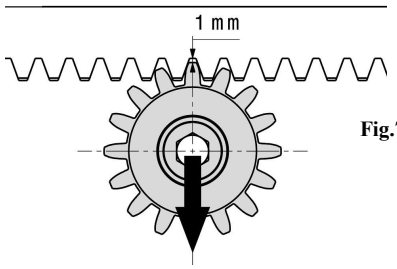


Fig.7

3.3 Calculation.

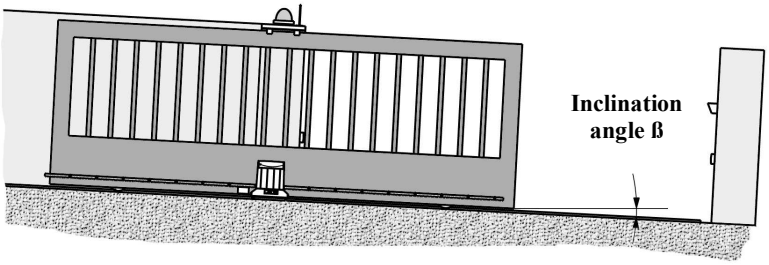


Fig.8

M [Nm] = P x sinß x D
P = weight of the door in Newton (9.8N=1Kg)
ß = inclination in degrees
D =module constant.
Module 4 = 0.032
Module 5 = 0.0325
Module 6 = 0.038

Example for calculation:
CONTROLGIR-30 can be used on doors which weigh 700 kg , and have an inclination of 5º and a rack M4?
P = 9.8 x 700kg = 6860 Newton
M = 6860 Newton x sin5 x 0.032 = 19.13 Nm
19.13 Nm is less than 30 Nm (maximum allowed), and is thus the brake would be suitable for this installation.