



FGR2

GENERAL CHARACTERISTICS

CASE	Aluminium housing / self-extinguishing cover V0 UL94
PROTECTION CLASS	IP65 - IEC / EN 60529
RATIO	-
DIRECT RATIO	1:12, 1:33, 1:50, 1:100, 1:200
SHAFT TYPE	Steel mounted on ball bearings Double overhang shaft version available on request
FIXING TYPE	Base fixing Front fixing (flanged)
MICRO SWITCHES	Nr 6 max - micrometric adjustment of roller lever (long life)
CAM BLOCK	Self-lubricating
CABLE ENTRY	M20 (max 2)
AMBIENTAL TEMPERATURE	Operating: -25°C ... +70°C Storage: -30°C ... +70°C

ELECTRICAL CHARACTERISTICS

MICRO SWITCHES CONNECTIONS		MFI.7 - 6.3 x 0.8 faston terminal
STANDARD CONFORMITY		IEC / EN 61058-1, UL 1054, EN 60204-1, EN 60947-1, EN 60947-5-1
MARKING		CE, cRUus, CCC, EAC
RATED INSULATION VOLTAGE - Ui		250V
RATHED THERMAL CURRENT - Ith		8A
RATHED OPERATING CURRENT	Resistive Load	8A - 250 V AC
	Inductive Load	3A - 250 V AC
RATHED IMPULSE WITH-STAND VOLTAGE - Uimp		1500 V
POSITIVE OPENING		NC positive opening ➞
CONTACT BLOCKS		1NC - 1 NO changeover snap action / silver plated - self cleaning
PROTECTION CLASS		IP40 (IP00 terminals) in according to EN 60529

OPTIONS

DOUBLE OVERHANG SHAFT	Available
POTENTIOMETER	-
ENCODER	-
CAM SHAPES	3 different cam shapes
PINIONS	20 different pinion shapes on request

Rotary gear limit switch

The **FGR2** is suitable for overhead crane winches, the speed control of rotating drums winding cables, machinery, etc... Equipped with adjustable micrometric screw, lives on each of the cams. The operation of the microswitches allows, by means of a screwdriver, the stroke calibration and therefore the opening or closing of the contacts according to the functional requirements.

General features

- Different versions available:
 - base fixing;
 - with double overhang shaft;
 - front fixing (base fixing + FLG accessory). On request.
- IP65 Protection class.
- Available in direct ratios: 1:12, 1:33, 1:50, 1:75, 1:100, 1:200 (optional on request).
- Available on request with pinions.
- Micro switches:
 - device available with 4 or 6 microswitches;
 - the working point is adjustable with a calibration screw;
 - each switch has 1NO + 1NC inside;
 - positive opening for NC contacts.

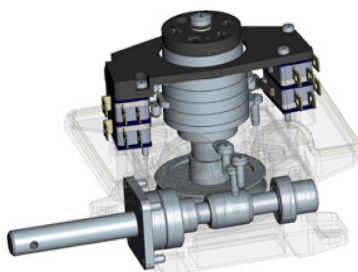
Compliance and certifications

- 2014/35/UE - 2014/33/UE - 2011/65/UE - 2015/863/UE
- EN 60947-1 (2007/A1 : 2011/A2 : 2014)
- EN 60947-5-1 (2004/A1 : 2009/AC : 2004/AC : 2005)
- EN 60204-1 (2006/A1 : 2009)
- EN 60529 (1991/A1 : 2000/A2 : 2013)
- EN 50581 (2012)
- IEC 63000 (2016)

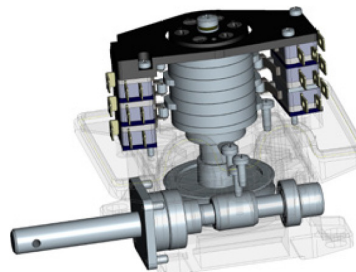


Base Fixing versions

X-ray views



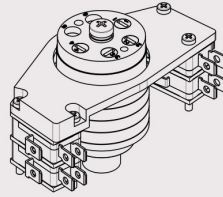
4 microswitches
Direct Ratio



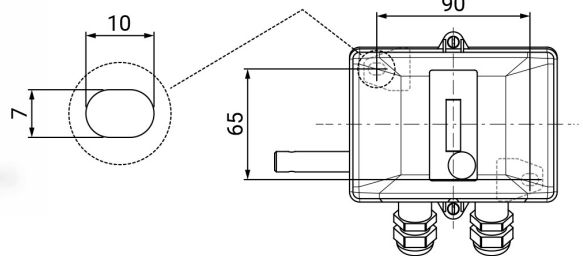
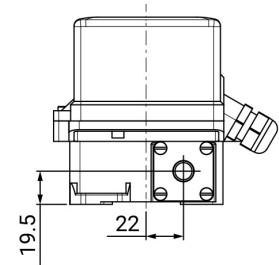
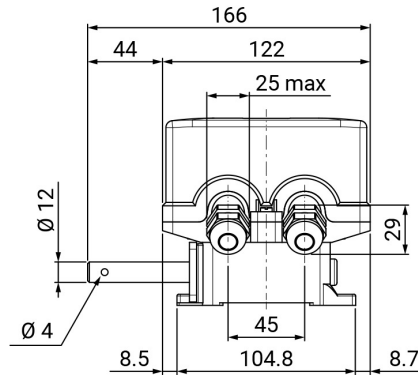
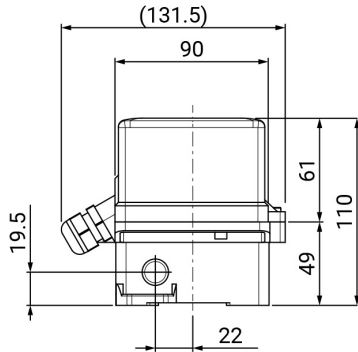
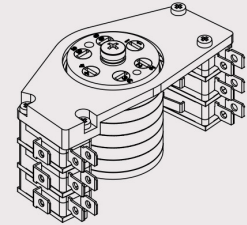
6 microswitches
Direct Ratio

Available codes

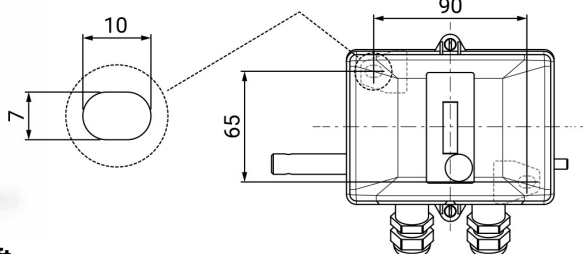
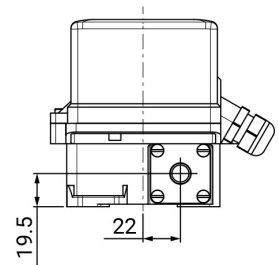
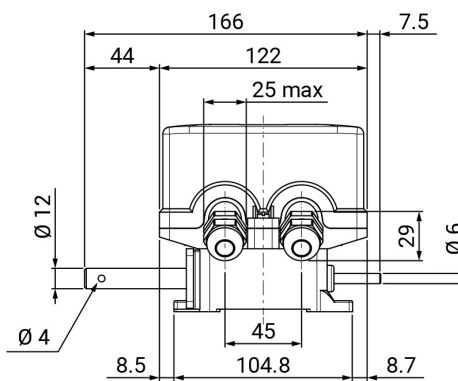
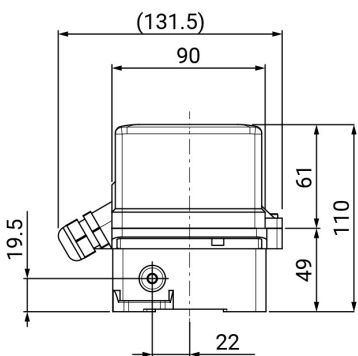
FGR2
Internal cam pack
4 microswitches



FGR2
Internal cam pack
6 microswitches



Base fixing
4 or 6 microswitches



Double overhang shaft
4 or 6 microswitches

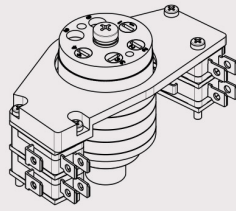
Available codes

FGR2

Internal cam pack
4 microswitches



MFI.7

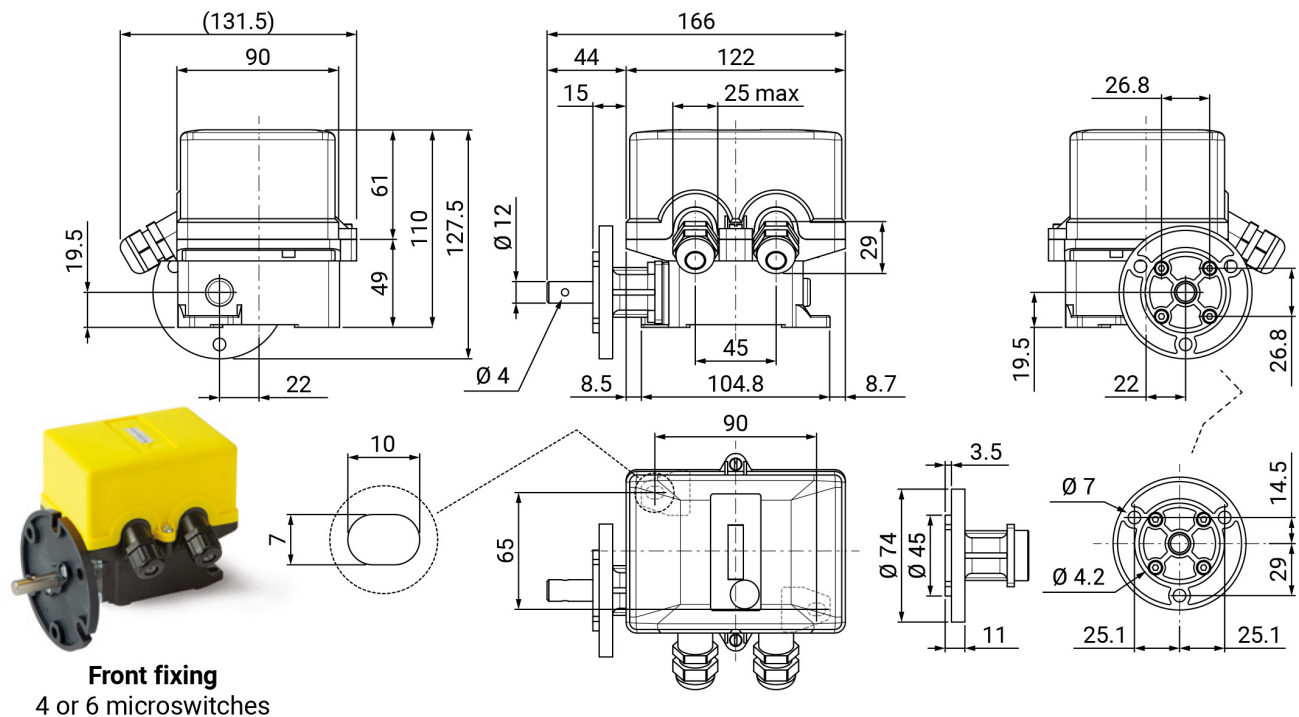
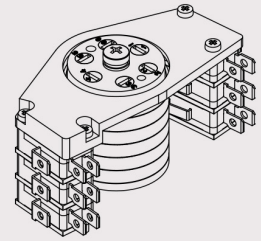


FGR2

Internal cam pack
6 microswitches



MFI.7



Coding system

The **FGR2** coding system is very clear: each block of digits identifies a specific function. The code provides all the informations that can be used to specify each customization.

FGR2	F	N	006/007/008/009/010	B	6
Series	Flange	Contact type	Identity number	Shaft type	Micro/cams
	Blank = Without F = With flange	MFI.7		Blank = Single shaft B = Double overhang shaft	Blank = Nr. 4 6 = Nr. 6
STANDARD ENCODING					

Available codes

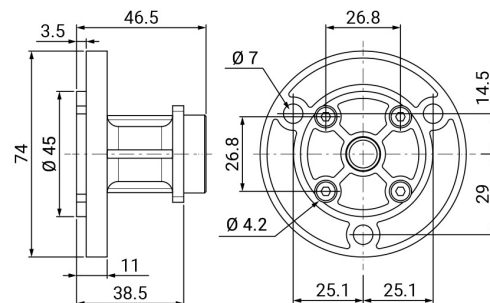
Ratio	Base fixing 4 microswitches	Base fixing 6 microswitches	Double overhang shaft 4 microswitches	Double overhang shaft 6 microswitches
1:12	FGR2N006	FGR2N0066	FGR2N006B	FGR2N006B6
1:33	FGR2N007	FGR2N0076	FGR2N007B	FGR2N007B6
1:50	FGR2N008	FGR2N0086	FGR2N008B	FGR2N008B6
1:100	FGR2N009	FGR2N0096	FGR2N009B	FGR2N009B6
1:200	FGR2N010	FGR2N0106	FGR2N010B	FGR2N010B6

Front fixing 4 or 6 microswitches

(A) Base fixing code plus **FLG** flange sold separately;



B) Front fixing device already assembled to be requested with code **FGRF2..**

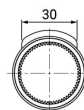


AVAILABLE CONTACT TYPES

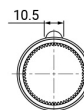


MFI.7

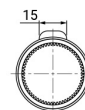
AVAILABLE CAM SHAPES



11703015
A (30°) - STANDARD



11703019
B (15°)



1173013
C (90°)