



	FFH	FCR
GENERAL CHARACTERISTICS		
STANDARDS	IEC / EN 60497/3	IEC / EN 60497/3
CASE	Self extinguishing housing V0 UL94	Self extinguishing housing V0 UL94
PROTECTION CLASS	IP67 - Double insulation	IP65 - Double insulation (IEC / EN 60529)
CABLE ENTRY	M16 / M20	Nr 1 Ø 22.5 mm
VERSIONS	Single or double speed motor configuration. 3, 4 or 4 with mechanical stop positions.	Single or double speed motor configuration. 3, 4 or 4 with mechanical stop positions.
NOTES	Fully adjustable aluminium rods □ 2x200 mm with "0" indicator. Reinforced mechanical stop.	Fully adjustable aluminium rods □ 6x300 mm with "0" indicator. Reinforced mechanical stop.
AMBIENTAL TEMPERATURE	Operating: -25°C ... +55°C Storage: -30°C ... +70°C	Operating: -25°C ... +55°C Storage: -30°C ... +70°C
ELECTRICAL CHARACTERISTICS		
PRODUCT ID	P016 Giovenzana Cam switch line	P016 Giovenzana Cam switch line
STANDARDS	IEC/EN 60947/3 – UL508	IEC/EN 60947/3 – UL508
MARKING	CE, IMQ, RINA, EAC, CCC, cULus, cCSAus	CE, IMQ, RINA, EAC, CCC, cULus, cCSAus
RATED OPERATING VOLTAGE - U _e	690V	690V
RATED INSULATION VOLTAGE - U _i	690V	690V
RATHED IMPULSE WITH-STAND VOLTAGE - U _{imp}	4kV	4kV
RATHED THERMAL CURRENT - I _{th}	16A	16A
ENCLOSED THERMAL CURRENT - I _{the}	16A	16A
RATHED OPERATING CURRENT	AC21A AC22A	16A - 690 V AC
	AC23A 3ph 230V	13A - 4 kW
	AC23A 3ph 400V	13A - 7.5 kW
FREQUENCY	50 / 60 Hz	50 / 60 Hz
CONTACTS	Double gap positive opening ➞	Double gap positive opening ➞
BLOCK CALIBER	A3 (EN 60947-1)	A3 (EN 60947-1)
TERMINAL SCREW	M3.5	M3.5
TIGHTENING TORQUE	0.8 Nm / 7.2 lbin (EN60947-1) 7.5 lbin / 0.85 Nm (UL508)	0.8 Nm / 7.2 lbin (EN60947-1) 7.5 lbin / 0.85 Nm (UL508)
CON-NECTABLE SECTION	Flexible conductors	1 x 0.75 / 4 ... 2 x 0.75 / 2.5 mm ² 10 ... 18 AWG
	Solid conductors	1 x 0.75 / 4 ... 2 x 0.75 / 2.5 mm ² 10 ... 18 AWG

Position limit switch with reduced overall dimensions

The **FFH position limit switch** is used to control several handling systems:

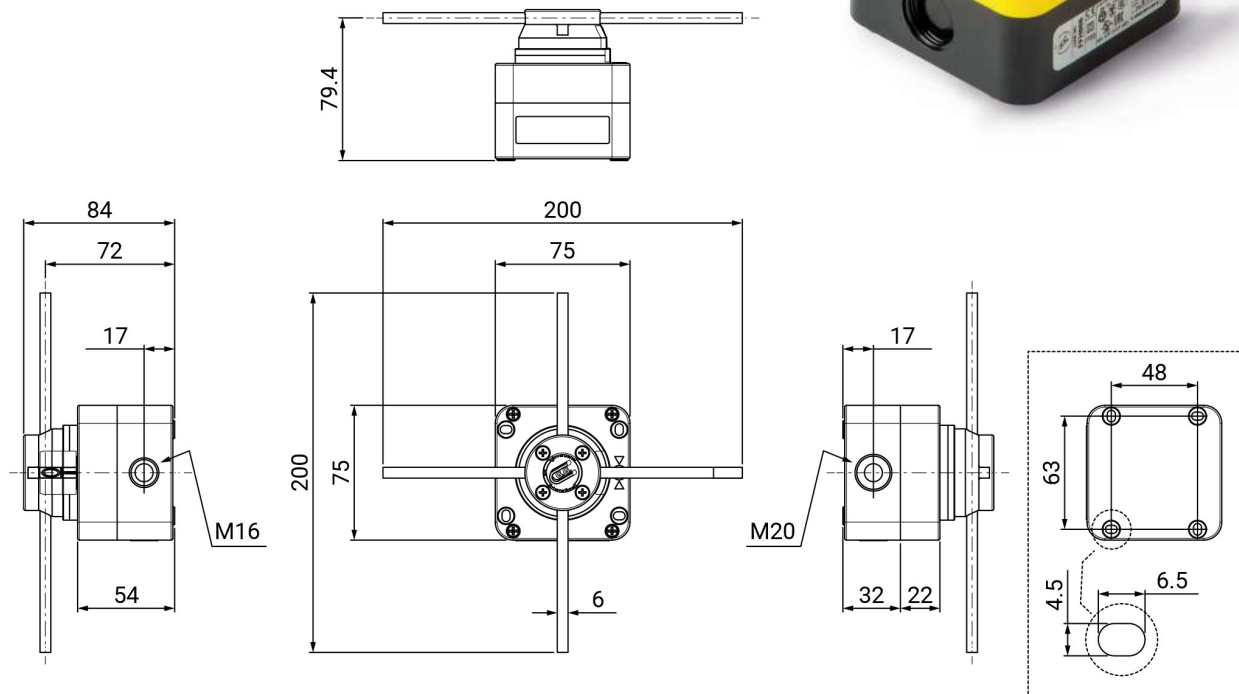
- **Bridge cranes:** the limit switch controls the operating system, for example a PLC, and allows the bridge crane to slow down or stop.
- **Hoists:** the limit switch is used to stop the hoist whenever it reaches a limit position.

Features

- Designed to ensure excellent performances in the most challenging operating conditions.
- Compact design to be adapted in any application need.
- Reduced overall dimensions compared to the historical FCR series.
- Arranged with 4 fixing holes.
- Positive opening NC contacts for safety functions.
- IP67 Protection degree.
- Aluminium rods with 6x6 mm section and enclosure in thermoplastic material.
- Cross rods with 4 maintained positions every 90°.
- Arranged with 2 outputs for cable clamps to reduce installation time and make wiring easier.
- Available different versions, also customizable on request.

Compliance and certifications

- 2014/35/UE - 2011/65/UE - 2015/863/UE
- EN 60947-1 (2007/A1 : 2011/A2 : 2014)
- EN 60947-3 (2009/A1 : 2012/A2 : 2015)
- EN 60204-1 (2006/A1 : 2009)
- EN 60529 (1991/A1 : 2000/A2 : 2013)
- EN 50581 (2012)
- IEC 63000 (2016)



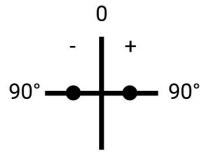
Available codes



FFH
Internal
cam switch
P016 line

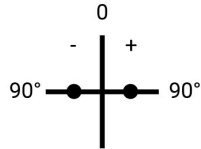
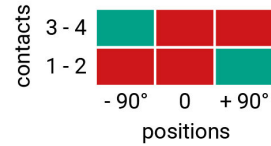


 contact open  contact close



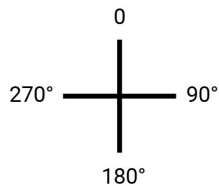
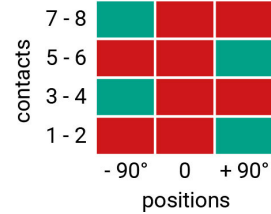
FFH001

Single speed
3 positions
With mechanical interlock ●



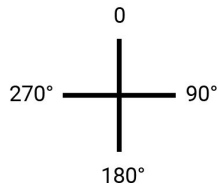
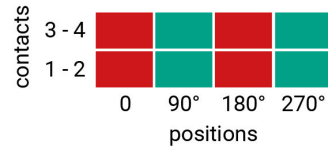
FFH002

Single speed
3 positions
With mechanical interlock



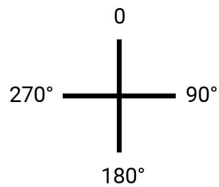
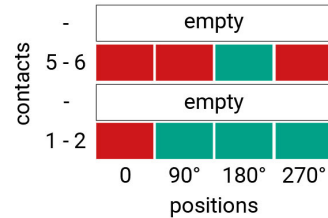
FFH003

Single speed
4 positions
Without mechanical interlock



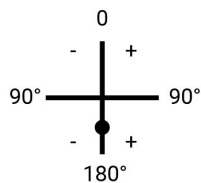
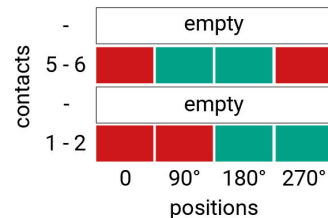
FFH004

Single speed
4 positions
Without mechanical interlock



FFH005

Single speed
4 positions
Without mechanical interlock



FFH006

Double speed
4 positions
With mechanical interlock ●

