



GIOVENZANA INTERNATIONAL B.V





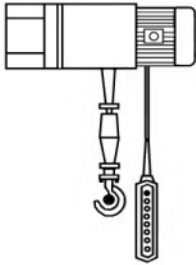



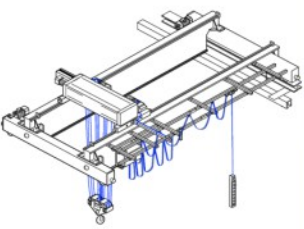

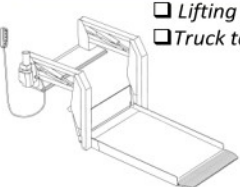



Pendant stations for small hoist application, in single / double row or direct power circuits switchings and tail lift controls.

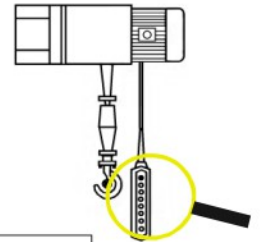
Giovenzana International Company, leader in lifting equipment control, makes a wide range of standard products for all installation requirements, and all built to high quality specification and safety guidelines.

The Lift Equipment products series comply with: IEC 947-5-1, EN60947-5-1, UL508 and use: IEC 204-1, EN60204-1, EN ISO 13850, all achieved according to the needs and requirements of Cee 89/392.

All operators are coloured and the laser-engraved, indelible legends comply with EN60204-1 and FEM 9.941.

CERTIFICATIONS: The pendant stations P02, P03, HP03, PL series can be certificated cUL.

Use (recommended)	Line	Picture	Characteristic	
 <p>□ Hoist</p>	P02		Two push button pendant stations for small hoist : <ul style="list-style-type: none"> • single speed or two speed motor • direct motor control 1kW – 1speed • available in UL/CSA requirements 	
	<i>(item available in kit-form, : enclosure, contact block and operator available separately for customization)</i>			
	P03		Three push button pendant stations for small hoist: <ul style="list-style-type: none"> • single speed motor or two speed motor • direct motor control 1kW – 1speed • available in UL/CSA requirements 	
	<i>(item available in kit-form, : enclosure, contact block and operator available separately for customization)</i>			
	HP03	 <p><i>Ergonomic! design</i></p>	Ergonomic pendant stations for small hoist : <ul style="list-style-type: none"> • single speed motor • two speed motor • available in UL/CSA requirements 	
<i>(item available in kit-form, : enclosure, contact block and operator available separately for customization)</i>				
 <p>□ Overhead crane</p>	DC30	 <p><i>High power!</i></p>	Pendant stations for high power hoist: <ul style="list-style-type: none"> • direct motor control single phase and three phase • Ith 25A - 1phase/2poles 230...400V 2.2kW • 3phase/3poles 230...400V 4kW 	
	 <p>□ Lifting platform □ Truck tails lift</p>	PL		SINGLE-row pendant stations for crane control circuits: <ul style="list-style-type: none"> • single speed motor or two-speed motor • available in different configuration with 5-7-8-10-12 holes • available in UL/CSA requirements
		<i>(item available in kit-form, : enclosure, contact block and operator available separately for customization)</i>		
	PLB		DOUBLE-row pendant stations for crane control circuits: <ul style="list-style-type: none"> • single speed motor • two speed motor • available in different configuration with 4-6-8-10-12-14 holes 	
<i>(item available in kit-form, : enclosure, contact block and operator available separately for customization)</i>				
	TLP	 <p><i>Compact! design</i></p>	Compact pendant stations for lifting platform and tails lift application (pendant or wall fixing)	
<i>(item available in kit-form, : enclosure, contact block and operator available separately for customization)</i>				



Characteristics:

- Bi-directional, mechanically interlocked
- IP 65 double insulation IEC/EN60529
- General and electrical data page 23
- Laser engraved symbols comply with EN60204-1, FEM 9.941
- Shock proof and heat resistant

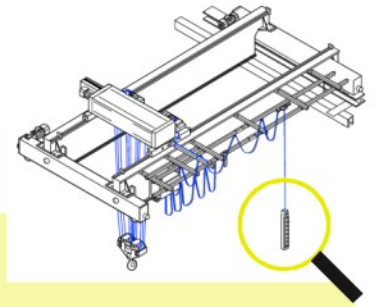
PICTURE	LAYOUT	CONFIGURATION	CODE	CONTACT TYPE		WEIGHT [gr]	
P02 KIT Available See pg. 18 Available in UL/CSA req.		SINGLE SPEED (* TILTING BUTTON 16A – 250Vac ½ HP)	P02.RM			230	
			P02.1			230	
			P02.2			250	
			P02.4			250	
			P02.CD	(*) HIGH POWER CONTACTS DIRECT MOTOR CONTROL 1Kw 1ph			230
		TWO SPEED	P02.D2			250	
P03 KIT Available See pg. 18 Available in UL/CSA req.		SINGLE SPEED (* HIGH POWER CONTACTS DIRECT MOTOR CONTROL 1Kw 1ph)	P03.1			440	
			P03.2			450	
			P03.3			460	
			P03CD	(*) HIGH POWER CONTACTS DIRECT MOTOR CONTROL 1Kw 1ph			460
					TWO SPEED	P03D2	
HP03 Available in UL/CSA req.		SINGLE SPEED	HP03			330	
					TWO SPEED	HP03.D2	
DC30 		SINGLE SPEED (* Ith 25A EXTRA HIGH POWER CONTACTS BLOCK FOR DIRECT MOTOR CONTROL : 2.2kW 1ph / 4kW 3ph)	DC30			600	
			DC30.RG			600	
			DC30.GE			600	
			DC30D2	(*)			650



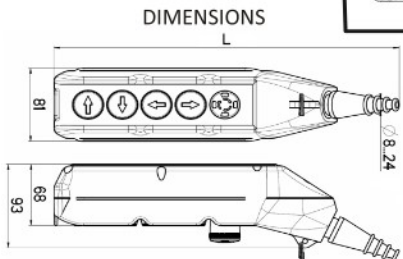
KIT Available See pg. 18
Available in UL/CSA req.

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CODE	PL05/E	PL05D2/E	PL05D4/E	PL07/E	PL07D2/E	PL07D4/E	PL07D6/E	PL08/E	PL08D2/E	PL08D4/E	PL08D6/E	PL10/E	PL12/E
weight [gr.]	600	625	655	800	830	855	880	890	915	945	970	1.105	1.290
N° push button	5	5	5	7	7	7	7	8	8	8	8	10	12
L length [mm]	345	345	345	495	495	495	495	530	530	530	530	640	710
LAYOUT													



PUSH BUTTON TYPE – CONTACT TYPE COUPLED

(*) two speed contact block

CONTACT BLOCKS

1 NC PL004001
1 NO PL004002

MULTI-SPEED CONTACT BLOCKS

A 2 VEL. NO+NO
1NO+1NO PL004010

KEY SWITCH

0-1 PL006001
1-0-2 PL006002

ROTARY SWITCH

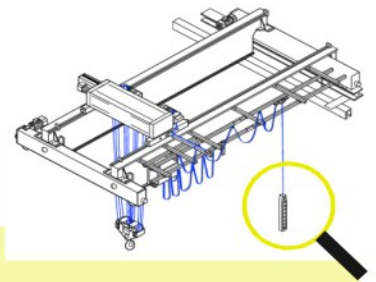
0-1 PL007001
1-0-2 PL007002

**MUSHROOM OPERATOR Ø 30
TURN TO RELEASE EN ISO 13850**

WITH VISION PL013001
STANDARD PL013002



KIT Available See pg. 18

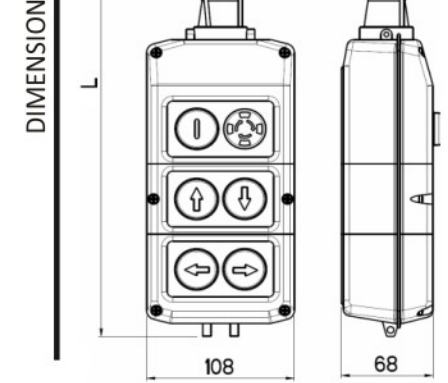
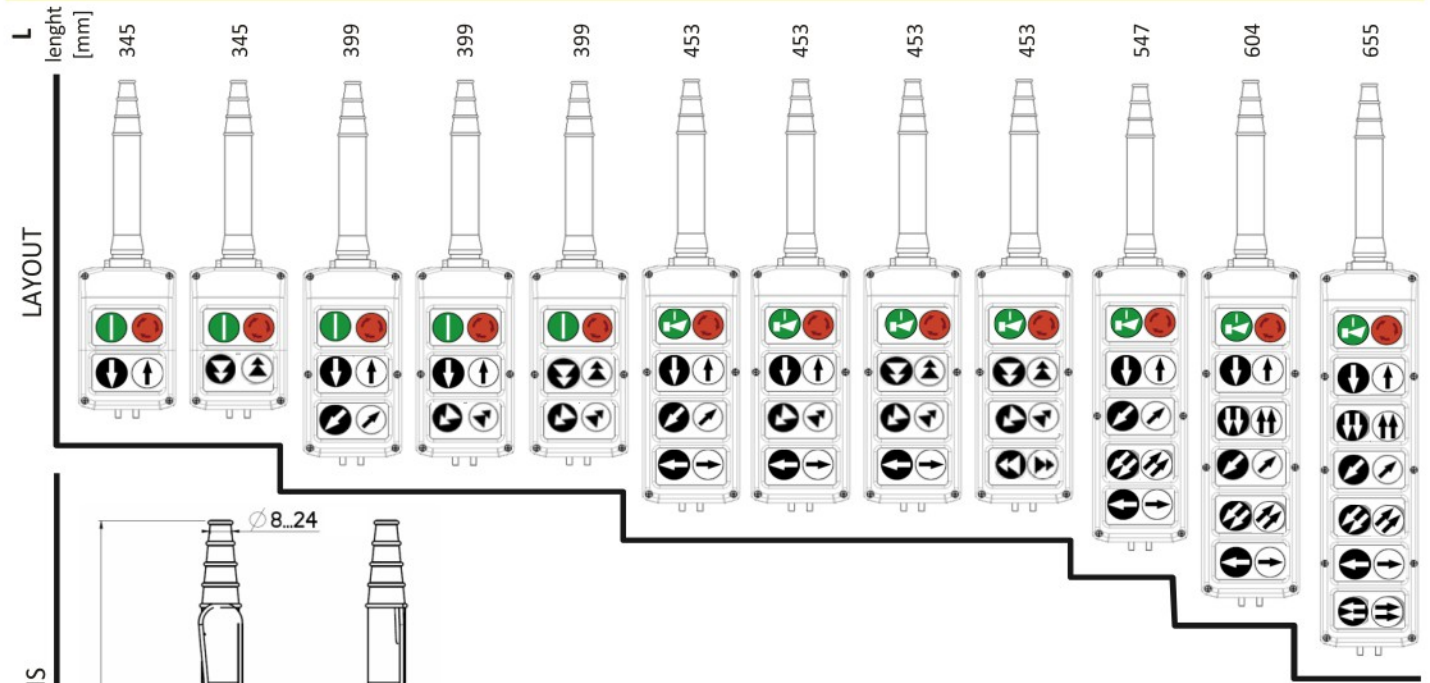


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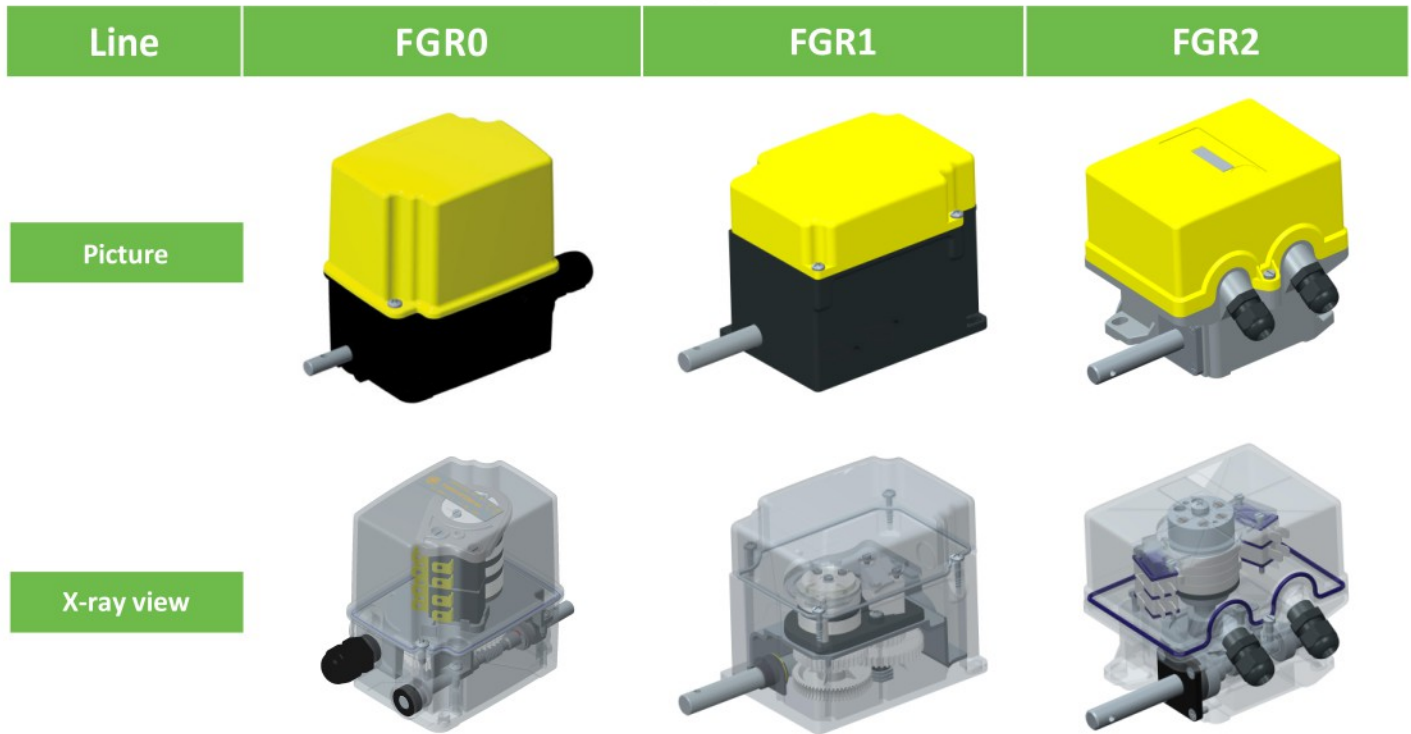
CODE	PLB04/E	PLB04D2/E	PLB06/E	PLB06D2/E	PLB06D4/E	PLB08/E	PLB08D2/E	PLB08D4/E	PLB08D6/E	PLB10/E	PLB12/E	PLB14/E
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weight [gr.]	530	555	700	730	755	860	895	920	945	1.080	1.245	1.445
N° push button	4	4	6	6	6	8	8	8	8	10	12	14



TIPO DI PULSANTE – TIPO DI CONTATTO ABBINATO

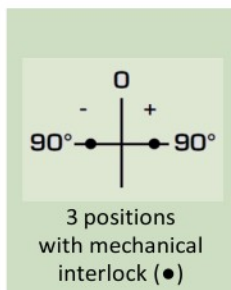
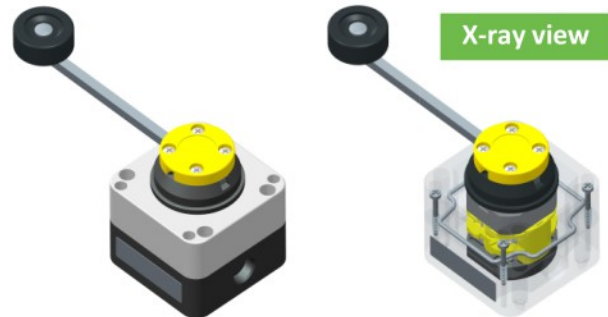
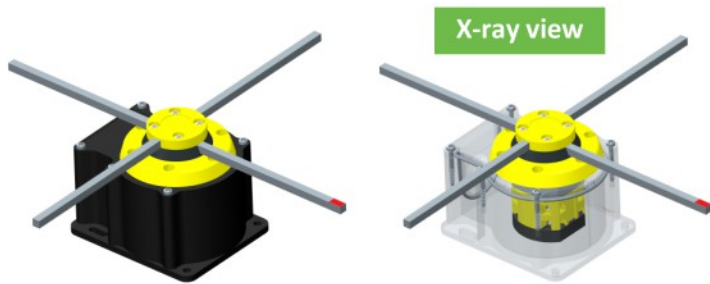
(*) two speed contact block



Characteristics	FGR0	FGR1	FGR2
Case	thermoplastic glass fiber reinforced	thermoplastic glass fiber reinforced	aluminium housing self extinguishing cover V0 UL94
Main / cam shaft ratio	1:12, 1:25, 1:33, 1:50, 1:75, 1:100, 1:150, 1:200, 1:400 and 1:800	012-033-050-075-100-150-200-400	012-033-050-100-200
Protection class	IP65 IEC/EN 60529	IP65	IP65
Shaft type	stainless steel driving shaft	- steel - coaxial shaft version available	- steel mounted on ball bearing - coaxial shaft version available
Fixing type	base / front flanged	- bottom - front (flanged version)	- bottom - front with FLG accessories
Microswitch	8A - 250V IEC/EN61058-1 / UL1054 1NC-1NO Changeover Snap Action NC Positive opening markings CE, cULus, CCC, EAC, RINA	8A - 250V - silver plated IEC/EN61058-1 / UL1054 1NC-1NO changeover fast trigger positive opening markings	8A - 250V - silver plated IEC/EN61058-1 / UL1054 1NC-1NO changeover fast trigger positive opening markings
Microswitch max n° / notes	max 4 - micrometric adjustment roller lever control (long life)	max 4 - micrometric adjustment roller lever control (long life)	max 6 - micrometric adjustment
Cam block	self-lubricating with transparent support for easier cam viewing	self-lubricating with transparent support for easier cam viewing	self-lubricating with transparent support for easier cam viewing
Cable entry	M16 (max 2)	M20 or M16 (max 4)	M20 (max 2)
Options	5 different cam shapes direct ratio 1:25 and 1:50	- N° 5 different cam shapes - potentiometer (direct ratio 1:1)	N° 3 different cam shapes

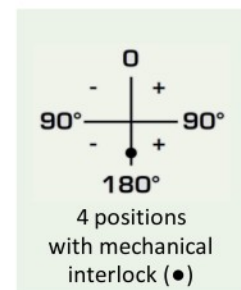
FCR

FFH



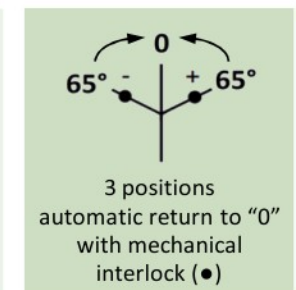
FCR001
Single Speed

3-4			
1-2			
Cont. Pos.	-90°	0	+90°



FCR006
Two Speeds

7-8				
5-6				
3-4				
1-2				
Cont. Pos.	-180°	-90°	0	+90°
				+180°



FFH2C-1
Single Speed

3-4			
1-2			
Cont. Pos.	-65°	0	+65°

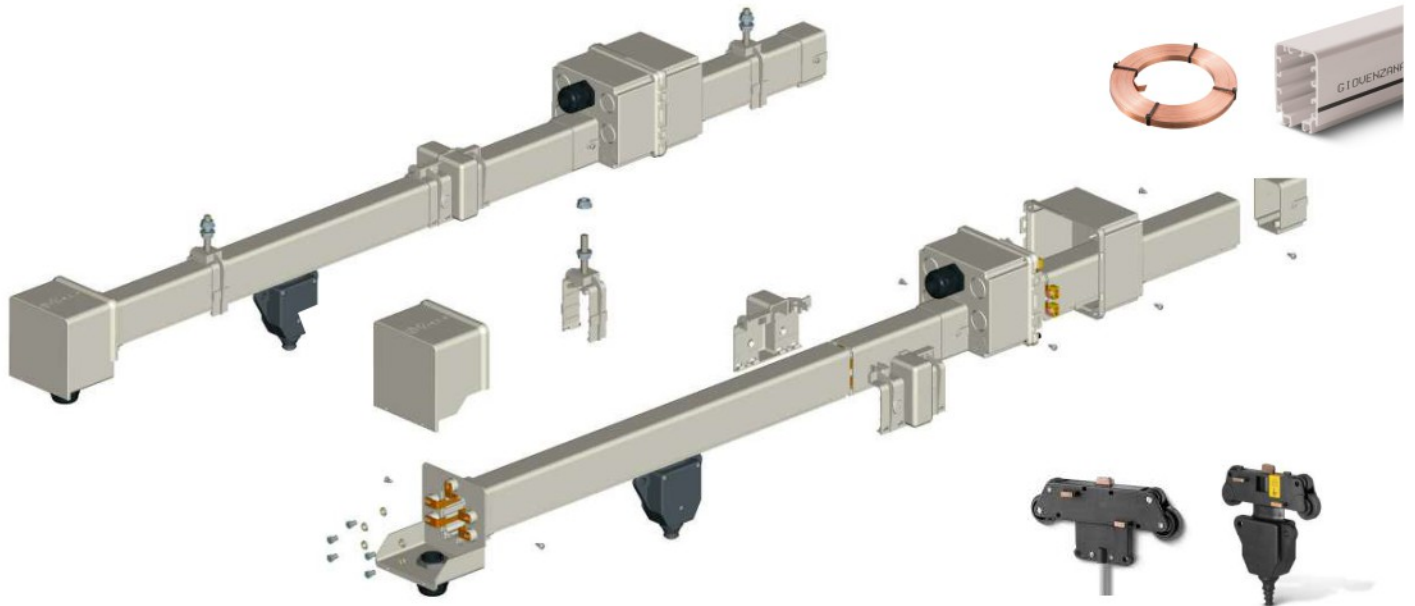
Characteristics

		FCR	FFH
Standards		IEC/EN 60947/3	IEC/EN 60947/3
Case		self extinguishing housing V0 UL94	self extinguishing cover V0 UL94
Protection class IEC/EN 60529		IP65	IP65
Cam switch	enclosed thermal current [Ithe]	16A	20A
	rated insulation voltage [Ui]	690V	690V
	product ID	P016 Giovanzana line	PX20 Giovanzana line
	contacts	double gap positive opening	double gap positive opening
	markings		
Cable entry		N° 1 dia. 22.5mm	1xM20 + 1xM16
Versions		- single or double speed motor configuration - 3,4 or 4 with mechanical stop positions	single speed motor configuration (other configuration on request)
Notes		fully adjustable aluminium rods □ 6x300mm with "0" indicator - reinforced mechanical stop	- fully adjustable metallic rods □ 6x120mm - reinforced mechanical stop - rubber covering wheel

AVAILABLE VERSIONS

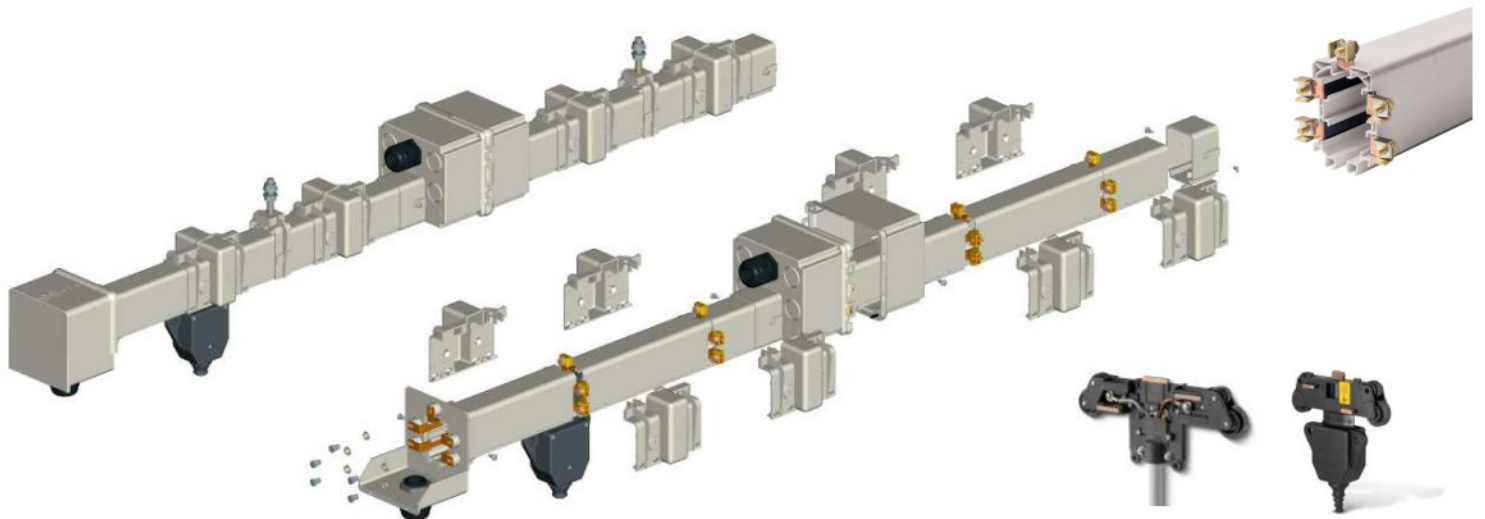
A. CONTINUOUS CONDUCTORS (JOINT-LESS)

The conductors are pulled from a coil without joints into the already installed casing.



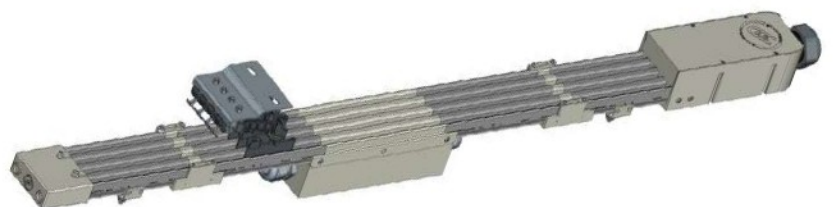
B. PRE-MOUNTED CONDUCTORS (JOINT-TYPE)

The conductors are already inserted in the plastic casing.



C. MULTIPOLE SYSTEM | MP04P | PRE-MOUNTED CONDUCTORS

THE CONDUCTORS ARE ALREADY INSERTED IN THE PLASTIC CASING.





GENERAL CHARACTERISTICS

LINE / SIZE	TR60		TR85H5P				TR85H7P			MP04P		
	40	60	40	70	100	140	50	100 200*	160 320*	60	100	140
Operating current 23°C	40A	60A	40A	70A	100A	140A	50A	100A	160A	60A	100A	140A
Comply with standards	CEI EN 60439-1, CEI EN 60439-2, CEI EN 60695-2-1, CEI EN 60570											
Markings												
Rated operating voltage [Ue]	600Vac											
Frequency	50Hz											
Conditional short circuit withstand current	10 ka											
Fuse rating gG	40A	60A	40A	70A	100A	140A	50A	100A	160A	60A	100A	140A
Protection class CEI EN 60529	IP13 (IP44 with gasket accessories)									IP20		
Flammability resistance:												
UL94	V0											
CeI EN 60695-2-1	960°C											
Ambient Temperature												
operating	-30°C +55°C											
storage	-30°C +70°C											
Max admissible trolley speed	2 00 m/min ⁻¹									400 m/min ⁻¹		
ETP Copper strip section [mm ²]	10 10x1	15 10x1,5	9,3 15,5x0,6	15,5 15,5x1	23,25 15,5x1,5	31 15,5x2	10 12,5x0,8	22,5 12,5x1,8	31,25 12,5x2,5	15	24	32
Resistance [Ω/m 10 ⁻⁴]	17	11,33	18,27	10,96	7,83	5,48	17	8,38	5,29	11,33	7,83	5,48
Impedence [Ω/m 10 ⁴]	17,09	11,38	18,36	11,01	7,87	5,55	17,09	8,42	5,36	11,38	7,87	5,55

* The 200A and the 320A are obtained by parallel configuration, so only for 4 poles. The values indicated are referred to the single conductor.

CONDUCTORS BARS WEIGHT TABLE (complete of conductors)

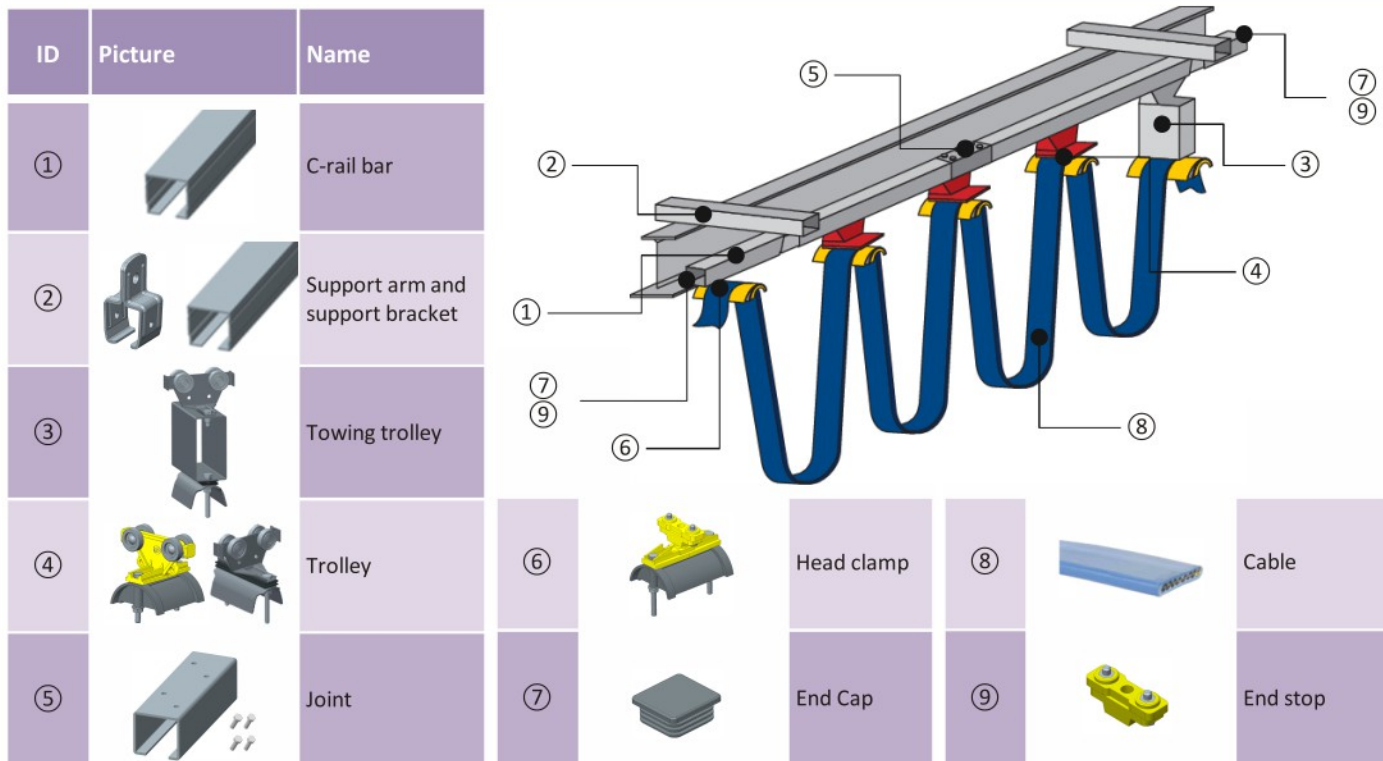
LINE / SIZE	TR60		TR85H5P				TR85H7P			MP04P		
	40	60	40	70	100	140	50	100	160	60	100	140
Weight [kg/m] +/- 50g												
4 poles	1,05	1,25	1,40	1,65	1,95	2,25	-	-	-	1,25	1,54	1,83
5 poles	1,15	1,35	1,50	1,80	2,15	2,55	-	-	-	-	-	-
7 poles	-	-	-	-	-	-	1,70	2,30	3,05	-	-	-

PVC BUSBAR CHARACTERISTICS

MATERIAL	CERTIFICATIONS	RIGID PVC
Self-extinguish	UL94 DIN 4102 D.M. 6/7/83	V0 B2 CI
Ultimate tensile strenght	ISO R527 23°C	430 kg/cm ³
Yield point	ISO R527 23°C	460 kg/cm ³
Modulus of elasticity	ISO R178 23°C	30.000 kg/cm ³
Impact resistance	DIN 53453	Unbroken
Dielectric strenght	ASTM 149	25 kv/mm
Softening temperature - Vicat	ISO R306 49N	82°C



Typical line schematic:



FLAT CABLE



FLAT CABLE

Comply with CEI 20 - 22 II (flame resistant)

Insulation class 2/3

Operational voltage 300/500V

Sheathing colour BLACK

Operating temperature -5 °C +70 °C

Range:

1.5MM x 4, 8, 12, 16, 18, 24, Core

2.5MM x 4, 8, 12, 16, 18, 24, Core

4MM x 4 & 8 Core

6MM x 4 & 8 Core

10MM x 4 Core

16MM x 4 Core

25MM x 4 Core

35MM x 4 Core

ROUND CABLE FOR PENDANT STATION



ROUND CABLE WITH DUAL STRAIN RELIEF STEEL WIRES-05VVD7-F

Comply with CEI 20 - 22 II (flame resistant)

Insulation class 2/3

Operational voltage 300/500V

Sheathing colour black

Ø 2mm steel wires

Breaking point: 60 kg/mm^q

Range

1MM x 5 Core,

1.5 MM x 8 Core

1.5 MM x 12 Core

1.5 MM x 16 Core

1.5 MM x 18 Core

1.5 MM x 20Core

1.5 MM x 24Core



Foot Switch



IP7009/SG

IP7009

IP7006I

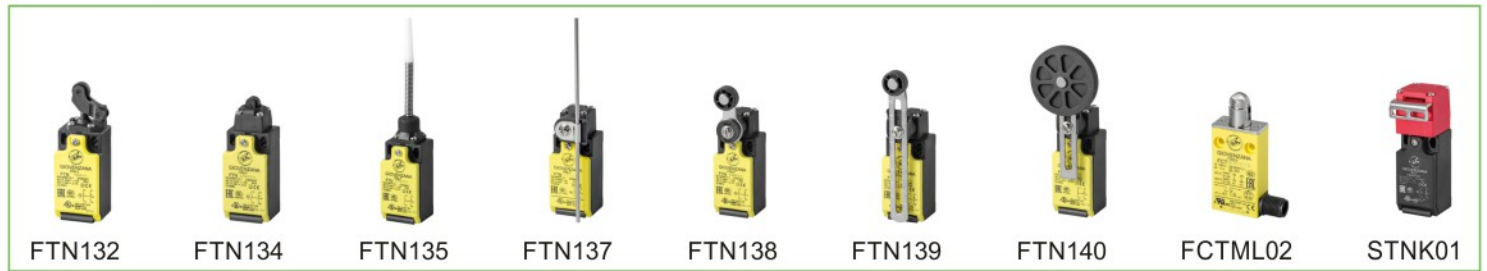
IP7023

IP7018

IP7007EM

IP7018EM

Limit Switch



FTN132

FTN134

FTN135

FTN137

FTN138

FTN139

FTN140

FCTML02

STNK01

Switch Disconnecter



SQ32

SQ63

SQN125

KNOB & PLATE

KNOB & PLATE

SQ..BC10

Enclosures



PQ01

PQ02

PQ03

PQ04

PQ05

PQ06

Control Accessories



PL004001

PL004002

PP2USB...BL

PPDLR

PPDNR.3

PPFN1R4N4X

PPFN1C4NX

PSLB...

PMJN8...

Our Valuable Customers:



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