



PIACENZA, ITALY  
SINCE 1985



# Encoders & Sensors for Elevator Industry 2022



Incremental

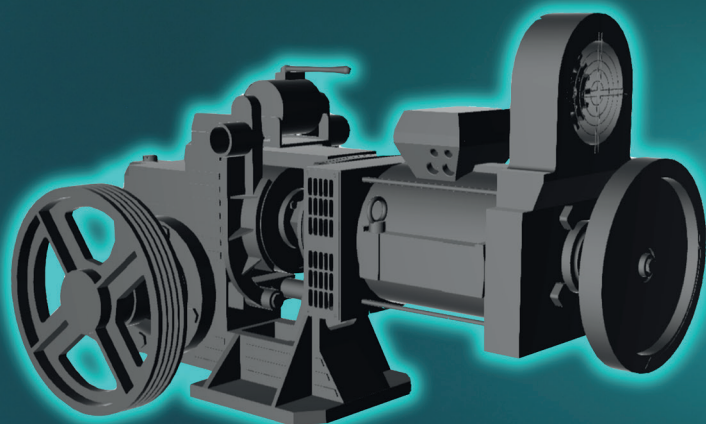


SinCos

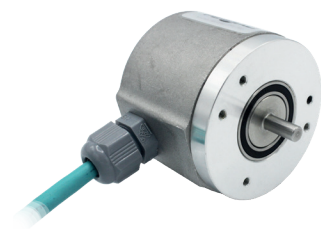


[www.italia.it](http://www.italia.it)

## Incremental Encoders for Geared Motors



|                      | ITAC 40B Series       | ITAC 40H Series       | ITAC 50B Series       |
|----------------------|-----------------------|-----------------------|-----------------------|
| Mechanical Interface | Clamping flange       | Hollow shaft          | Clamping flange       |
| Electrical Interface | Push-Pull<br>RS422    | Push-Pull<br>RS422    | Push-Pull<br>RS422    |
| Housing Diameter     | 40 mm                 | 40 mm                 | 50 mm                 |
| Shaft Diameter Opt.  | 6, 8, 10 mm           | 6, 8, 10 mm           | 6, 8, 10 mm           |
| Resolution max.      | up to 65.536 ppr      | up to 65.536 ppr      | up to 65.536 ppr      |
| Power supply         | 5VDC<br>5VDC to 30VDC | 5VDC<br>5VDC to 30VDC | 5VDC<br>5VDC to 30VDC |

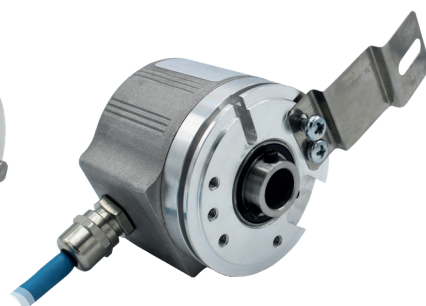
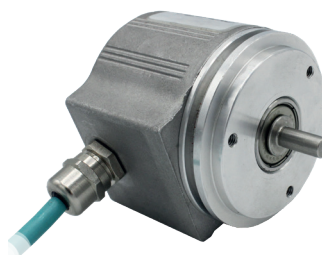


**ITAC 50S Series**

**ITAC 50H Series**

**ITAC 50HD Series**

|                      |                       |                         |                         |
|----------------------|-----------------------|-------------------------|-------------------------|
| Mechanical Interface | Servo flange          | Hollow shaft            | Hollow shaft            |
| Electrical Interface | Push-Pull<br>RS422    | Push-Pull<br>RS422      | Push-Pull<br>RS422      |
| Housing Diameter     | 50 mm                 | 50 mm                   | 50 mm                   |
| Shaft Diameter Opt.  | 6, 8, 10 mm           | 6, 8, 10, 12, 14, 15 mm | 6, 8, 10, 12, 14, 15 mm |
| Resolution max.      | up to 65.536 ppr      | up to 65.536 ppr        | up to 65.536 ppr        |
| Power supply         | 5VDC<br>5VDC to 30VDC | 5VDC<br>5VDC to 30VDC   | 5VDC<br>5VDC to 30VDC   |

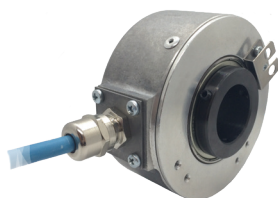


**ITAC 58B Series**

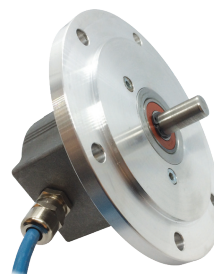
**ITAC 58S Series**

**ITAC 58H Series**

|                      |                         |                       |                         |
|----------------------|-------------------------|-----------------------|-------------------------|
| Mechanical Interface | Clamping flange         | Servo flange          | Hollow shaft            |
| Electrical Interface | Push-Pull<br>RS422      | Push-Pull<br>RS422    | Push-Pull<br>RS422      |
| Housing Diameter     | 58 mm                   | 58 mm                 | 58 mm                   |
| Shaft Diameter Opt.  | 6, 8, 10, 12, 14, 16 mm | 6, 8, 10 mm           | 6, 8, 10, 12, 14, 15 mm |
| Resolution max.      | up to 65.536 ppr        | up to 65.536 ppr      | up to 65.536 ppr        |
| Power supply         | 5VDC<br>5VDC to 30VDC   | 5VDC<br>5VDC to 30VDC | 5VDC<br>5VDC to 30VDC   |



|                      | ITAC 80H Series                      | ITAC F82 Series                     | ITAC 100H Series                 |
|----------------------|--------------------------------------|-------------------------------------|----------------------------------|
| Mechanical Interface | Hollow shaft                         | Hollow shaft                        | Hollow shaft                     |
| Electrical Interface | Push-Pull<br>RS422                   | Push-Pull<br>RS422                  | Push-Pull<br>RS422               |
| Housing Diameter     | 80 mm                                | 82 mm-thin version of<br>80H Series | 100 mm                           |
| Shaft Diameter Opt.  | 16, 17, 18, 19, 20, 22, 24,<br>25 mm | 38, 40, 42, 44 mm                   | 26, 28, 30, 32, 38, 40,<br>42 mm |
| Resolution max.      | up to 10.000 ppr                     | up to 8192 ppr                      | up to 10.000 ppr                 |
| Power supply         | 5VDC<br>5VDC to 30VDC                | 5VDC<br>5VDC to 30VDC               | 5VDC<br>5VDC to 30VDC            |



|                      | ITAC 100HD Series                    | ITAC 11S Series       |
|----------------------|--------------------------------------|-----------------------|
| Mechanical Interface | Hollow shaft                         | Servo flange          |
| Electrical Interface | Push-Pull<br>RS422                   | Push-Pull<br>RS422    |
| Housing Diameter     | 100 mm                               | 115 mm                |
| Shaft Diameter Opt.  | 26, 28, 30, 32, 38, 40,<br>42, 45 mm | 10, 11, 12, 15 mm     |
| Resolution max.      | up to 10.000 ppr                     | up to 5.000 ppr       |
| Power supply         | 5VDC<br>5VDC to 30VDC                | 5VDC<br>5VDC to 30VDC |



## Absolute Encoders for Geareless Motors



|                      | ITAC SC 2048 Series  | ITAC SSI 2048 Series                      | ITAC BiSS 2048 Series                     |
|----------------------|----------------------|-------------------------------------------|-------------------------------------------|
| Mechanical Interface | Taper shaft Ø9,25    | Taper shaft Ø9,25                         | Taper shaft Ø9,25                         |
| Electrical Interface | SinCos               | SSI                                       | BiSS                                      |
| Housing Diameter     | 56 mm                | 56 mm                                     | 56 mm                                     |
| Resolution max.      | 2048 ppr Sine/Cosine | 2048 ppr Sine/Cosine<br>Singleturn 13 bit | 2048 ppr Sine/Cosine<br>Singleturn 13 bit |
| Power supply         | 4.75VDC to 7VDC      | 4.75VDC to 5,5VDC                         | 4.75VDC to 5,5VDC                         |
| Order Part Number    | ITAC SC2048-R7       | ITAC SSI2048-R7                           | ITAC BISS2048-R7                          |

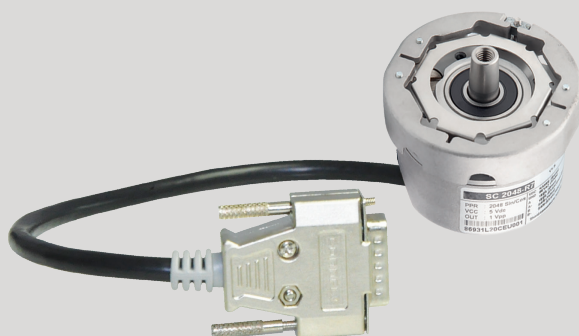
## Absolute Encoders Montage and Connection Options

### Standard Clamp with 7 meter cable



Order Part Number : ITAC SC2048-R7

### Standard Clamp with Dsub Connectoion



Order Part Number : ITAC SC2048-R30D15

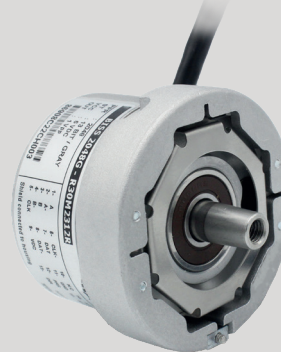


Female Cable Part Number : FCSF D15-R700

### Standard Clamp SSI Option

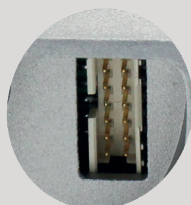
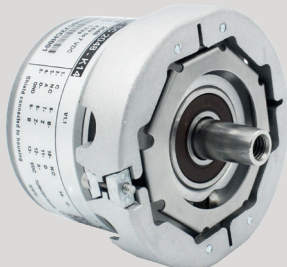


### Standard Clamp BiSS Options



## Absolute Encoders Montage and Connection Options

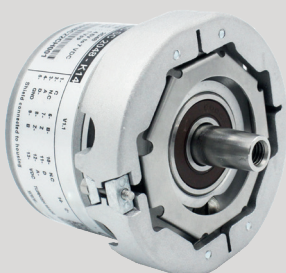
### Standard Clamp with K14 Socket Connection Option



**K14 Connector**

Order Part Number : ITAC SC2048-K14

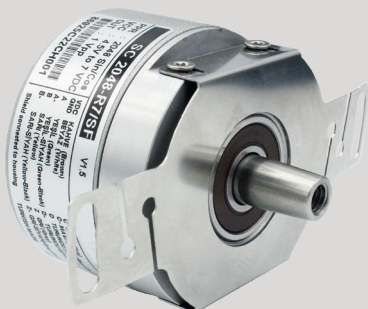
### Standard Clamp with K14 Socket & K14 Female Socket Option



Order Part Number : ITAC SC2048-K14

Order Part Number : FCSF SCK14 R5

### SF Spring



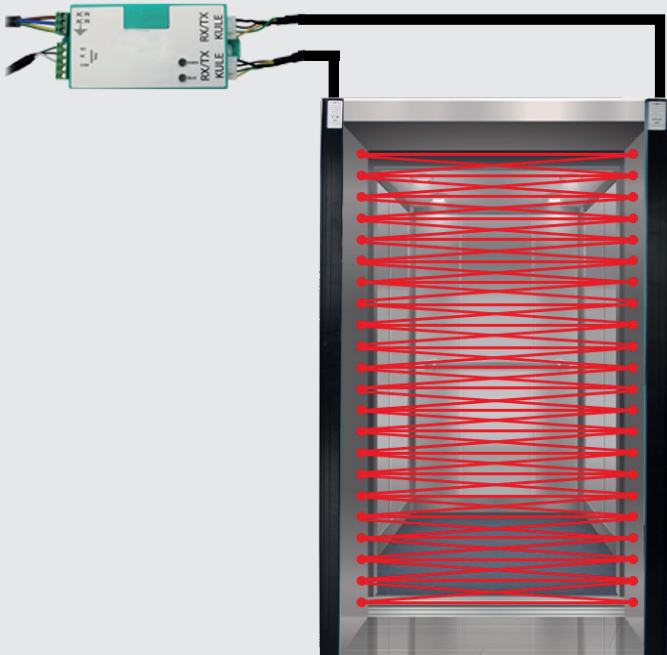
Order Part Number : ITAC SC2048-R7-SF

### S8 Spring



Order Part Number : ITAC SC2048-R7-S8

# Door Detectors for Elevators



ITAC DD36 Series Door Detector

ITAC DDPU Powerbox

Number of diodes  
Object Sensing  
Detection Height  
Response Time  
Power Consumption  
Size  
Material

36 diodes

5 cm

1600 mm

300 ms

-

12x31x2000 mm

Aluminum

85-230VAC

-

-

-

3W

30x57x133 mm

ABS

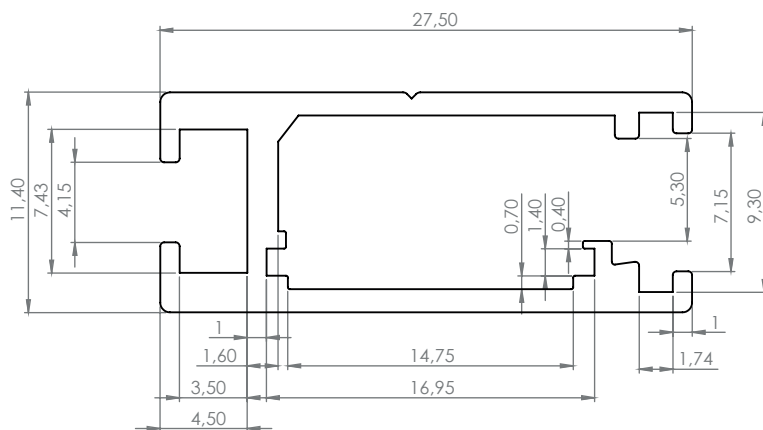
ITAC DD36 TKL : Transmitter(TX) Part Number  
ITAC DD36 RKL : Reciever (RX) Part Number  
ITAC DD36 PKL : RX + TX+Powerbox

Order Part Number : ITAC DDPU 220KLT  
(can be bought separately)

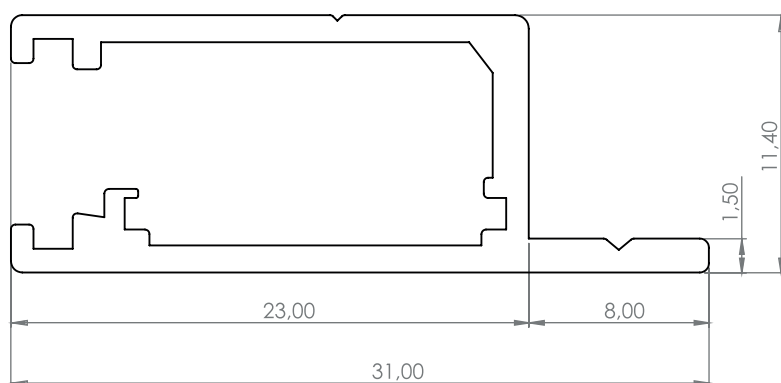


## Door Detectors Profile Options

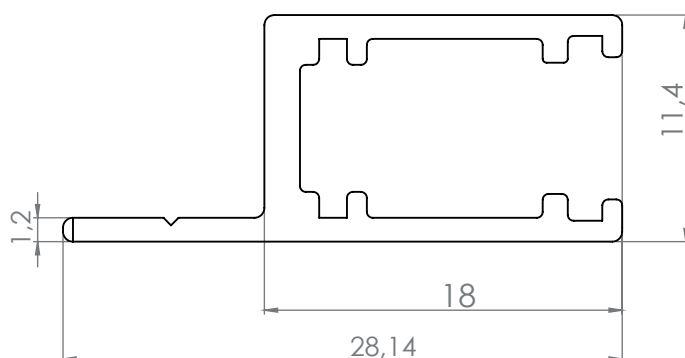
### C Profile



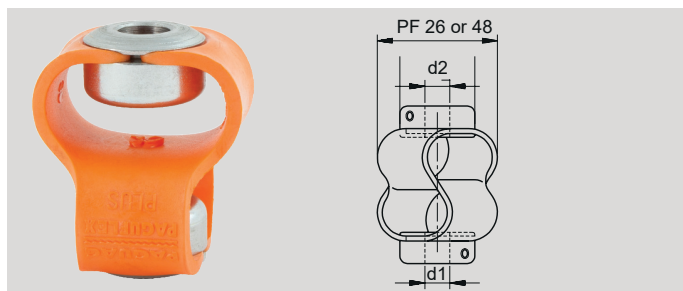
### L Profile



### D Profile



## Paguflex Couplings



## PF481212

Set-screws M4x4 DIN916

$\varnothing d2$

$\varnothing d3$

$d1 = 24 \text{ or } 35$

## SK351010

## SPF482601010

The image displays a 3D-printed part and its corresponding technical drawing. The part is a white, L-shaped bracket with a central circular hole and four smaller circular holes. The technical drawing includes the following dimensions:

- Overall width: 60
- Overall height: 64
- Inner width: 30
- Inner height: 20
- Central hole diameter:  $\varnothing 4$
- Distance from bottom edge to center of central hole: 20
- Distance from side edge to center of side holes: 30
- Distance from bottom edge to center of bottom holes: 20
- Angle of the side holes:  $120^\circ$
- Radius of the side holes: R3.5
- Radius of the bottom holes: R3.5

## ITASIA Product Range



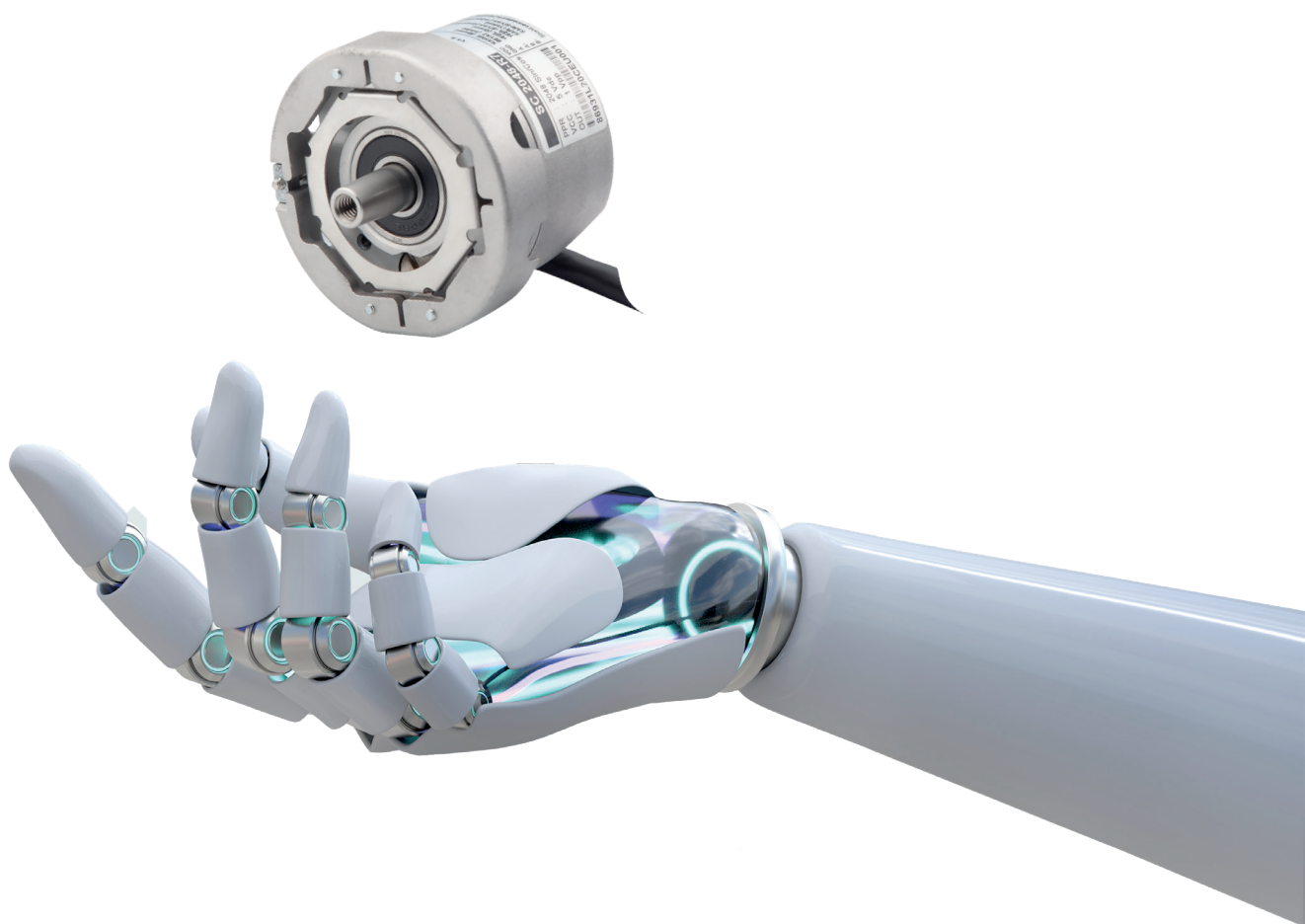


# ITASIA

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**SINCE 1985**

## ENCODING THE FUTURE



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