

SPS

Control and reliability
of fastening
strategies



SPS
Socket Programme Selector

Fiam[®]
PEOPLE AND SOLUTIONS

Control and reliability of fastening strategies

SPS is the new Poka Yoke device for **selection of fastening program by sockets/bits pick up**. It works in connection with Fiam control units.

Up to 8 sockets or bits (with diameter up to 80 mm) can be selected. The unit **checks correspondence between socket picked up and pre-set tightening program as indicated from the controller**.

Selection LEDs and socket pick-up acoustic signal (buzz): each socket spot is indeed connected to a particular program in the controller so that, **when the worker picks one socket the controller is automatically set in accordance**.

In particular using TCS3 controller the operator can carry out a correct tightening sequence by picking-up the socket indicated from switched on LED in the SPS.

Reliability

- **Designed and manufactured by Fiam** with the latest electronic technologies
- Can be used with **CB DC electric handheld screwdrivers or MCB DC electric nutrunner motors** installed on reaction arms and connected to Fiam control unit (TCS1, TCS3..., TCSB and TOC models)
- Equipped with **two I/O connectors** for interfacing with external unit
- Equipped with a **7 mt. single cable connecting SPS to the control unit** (from the latter SPS also receives power feeding)

OPS (Open Program Selection)



- The SPS works together with all Fiam control units according to Open Program Selection
- Depending on the accessory picked up one among preset programs is selected
- The LED lights **up after picking up the socket/bit**
- The sequence of programs used is up to the operator

CPS (Controlled Program Selection)



- Once connected to a TCS3... controller, SPS can work according to "controlled selection mode"
- The TCS3... unit sends a signal to SPS showing the right picking-up sequence (Poka Yoke system)
- The LED **lights up before picking up the accessory showing with socket is to be used next**
- The tool works only if the right accessory is picked-up
- The operator is helped following the right programs sequence

Don't be satisfied
with the maximum

Perfection is
in your hands

Naturally
innovative

Productivity Ergonomics Ecology

- **Possibility to select up to 8 different accessories (bits/ sockets)**
- The socket tray couplings have to be **customized/worked according to customer's need** and they are fast to install following user guide instructions
- The couplings can accommodate **bits and sockets with 42 mm max ø.** For diameters bigger than this, special couplings are available upon request: they allow the installation of accessories with ø up to 64 or 80 mm
- Easy and **practical menu navigation** using only two keys

- It helps the operator while picking-up and replacing the accessory to be used
- **Acoustic signal** (enabled or disabled) and **LED of socket picking-up** ease the assembly operations
- Easy and practical **deactivation** of non-used sockets by leaving supplied cover with screw fastened as it is when delivered
- 24 volt system: **highest security** for the operator

- **Very low consumptions**
- **Eco-contribution WEEE acquitted:** Fiam carries out its obligations of producer, with full respect for the environment and without any extra charge for the customer
- **Eco-friendly** packaging
- It is made with **recyclable materials;** all the parts may therefore be easily disposed of



SPS - Socket Program Selector

Model	Code	Unit to use	Dimensions	Weight
			mm	Kg
SPS forTCS /TCS...	687010051	TCS1 andTCS3...	239x310x63	5,8
SPS forTCSB	687010050	TCSB 15/25/50E	239x310x63	5,8
SPS forTOC	687010052	TOC CH1/CH2	239x310x63	5,8

• Models listed in the chart have standard spots for accessories up to 42 mm \varnothing

Standard equipment (supplied with selector)

- 7 mt. connecting cable
- 8 socket spots to be customized
- 2 I/O connectors
- Eco-friendly packaging
- Use and maintenance manual

Accessories available upon request

Special socket tray

For diameters higher than 42 mm (up to 64 or 80 mm)

In this case, the SPS selector can accommodate:

- 8 special sockets for diameters up to 64 mm
- 4 special non consecutive sockets for diameters up to 80 mm



Special coupling:
with eased guided
engagement

Code	max \varnothing accessory
	mm
687019016	64
687019022	80

Bits, sockets, bushes, balancers etc.

To choose the accessory, check Accessories catalogue n. 78

**To choose
your tightening
solution,
check following
catalogues
available online**



**CB DC electric handheld
screwdrivers with
torque/angle control**

**MCB DC electric nutrunner
motors with current control or
torque/angle control
(used on reaction arm for
manual operation)**



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Quality Management
System Certificate



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