

# SPS

**Control and reliability  
of fastening  
strategies**



**SPS**

Socket Programme Selector

**Fiam**<sup>®</sup>  
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 ø

### 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 ø 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)**



**www.fiamairtools.com**

**Fiam**  
PEOPLE AND SOLUTIONS

**Fiam Utensili Pneumatici Spa**  
Viale Crispi 123  
36100 Vicenza - Italy  
Tel. +39.0444.385000  
Fax +39.0444.385002  
[customerservice@fiamairtools.com](mailto:customerservice@fiamairtools.com)  
[www.fiamairtools.com](http://www.fiamairtools.com)

**Fiam France s.a.s.u.**  
ZI Champ Dolin, 3 allée du Lazio, Bâtiment C  
69800 Saint Priest - France  
Tel. +33.4.78700150  
Fax +33.4.78705403  
[serviceclient@fiamfrance.fr](mailto:serviceclient@fiamfrance.fr)  
[www.fiamfrance.fr](http://www.fiamfrance.fr)

