

Solder Feeder

SFR-A

For Automated Processes

The SFR is designed for **automatic solder wire transportation** and is **controlled by a PC/PLC**.

To establish the communication between the SFR Solder Feeder and a Robot (PC or PLC) **download the Communication Protocol for SFR** at www.jbctools.com/jbcsoftware.html

Control parameters such as wire length and dispensing speed are customizable.

It features a **wire detector sensor** and in case of any transport error the system informs with "blocked up" or "consumed".

The Automatic Solder Feeder is **compatible with** several solder wire Guide Kits [GSFR](#), these are available for **different wire diameters** and with or w/o **Solder Wire Perforation**

Guide Kits **GSFR** are **not included**.



Specifications

Selectable parameters

| | |
|----------------------|--|
| Solder wire length | 0.5 to 250 mm / 0.02 to 9.84 in |
| Solder wire speed | 0.5 to 120 mm/s / 0.02 to 4.72 in/s |
| Operation modes | Continuous / Discontinuous |
| Solder compatibility | |
| Wire diameter | 0.5 to 1.5 mm / 0.020 to 0.062 in |
| | See available GSFR guides sets |

Compatible Solder Reel

| | |
|---------------|-------------------|
| Max. weight | 1 Kg / 2.2 lb |
| Max. length | 80 mm / 3.2 in |
| Max. diameter | 80 mm / 3.2 in |
| Axis hole | >10 mm / >0.39 in |

Special features

| | |
|-------------------------|---|
| Solder Wire Perforation | Specific GSFR guide sets for flux core perforation are available, allowing flux flow and outgassing to minimize solder splashing. |
| Solder wire detection | A built in encoder provides feedback when the solder is not being fed (solder reel finished or solder guide clogged). |

ESD/EOS

| | |
|-------------------------|--|
| ESD safe | |
| Power supply | |
| Voltage (DC) | 24 V / 1.5 A required through M8 |
| Ambient operating temp. | 10 to 40 °C / 50 to 104 °F |
| Dimensions and weight | |
| Feeder with reel holder | 124 x 158 x 114 mm / 1.0 kg 4.9 x 6.2 x 4.5 in / 2.2 lb |
| Package | 215 x 130 x 120 mm / 1.3 kg 8.5 x 5.1 x 4.7 in / 2.9 lb |

Connectables

Automation

Control Box
UCR



Soldering Irons
TR



Automatic Soldering Iron
TRA



Soldering Head
RBA-A



Guide Kit for SFR
GSFR



Cartridge Stand
CS2R



Documentation

Manuals

SFR Communication Protocol
SFR-A Manual

Exploded View

SFR-A Exploded View