

DATASENSING SSF M18 FIBRE OPTIC AMPLIFIER

SSF/0N-0A
Optical Fibre Amplifier NPN L/D Teach-in plast. cable
2m axial

- Sensing distance depends on optical fibres
- Plastic and nickle-plated brass
- Output NPN or PNP
- IP67
- LED status indicator for all versions



PRODUCT DESCRIPTION

The **SSF Series M18 Fibre Optic Amplifier** from Datasensing (formerly Micro Detectors) offers a flexible and reliable solution for a variety of industrial sensing applications. Featuring an M18 body, this amplifier is designed for easy and secure mounting in a range of environments, ensuring a seamless integration into existing systems. The SSF series is ideal for use with fibre optic sensors, allowing for precise and effective object detection in even the most challenging conditions where space is limited or where conventional sensors may struggle.

One of the standout features of the SSF Series is its sensitivity adjustment and Teach-in button, providing users with the ability to quickly and easily calibrate the amplifier for optimal performance. Whether you need to fine-tune the sensor's response or require a simple one-touch setup, these options make the SSF amplifier adaptable to a variety of applications. This ensures that the device is flexible enough to meet the specific needs of your industrial processes, from packaging and sorting to material handling and assembly lines.

The SSF Series supports both PNP and NPN output, making it compatible with a wide range of control systems. Additionally, the amplifier offers the option to select between Light on or Dark on modes, giving you further control over how the sensor responds to light levels. This makes it easy to integrate into systems where the detection of objects or materials is based on light reflection or interruption.

Technical features:

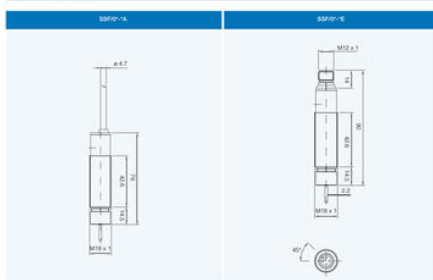
- Housing: M18 body, providing easy and flexible mounting options for industrial environments.
- Sensitivity Adjustment: Manual sensitivity adjustment for fine-tuning the sensor's response to light levels and ensuring optimal detection.
- Teach-in Function: Teach-in button for quick and simple calibration, making it easy to set up and adjust the amplifier for various applications.
- Output Type: Available with PNP or NPN output, providing flexibility to work with different control systems.
- Light On/Dark on Mode: Selectable Light on or Dark On mode, allowing for customization based on the specific needs of the application (e.g., detecting light interruption or reflection).
- Application: Compatible with fibre optic sensors for precise object detection in challenging environments.
- Operating Voltage: 24V DC operating voltage, making it compatible with most industrial control systems.
- Environmental Protection: Built to withstand industrial conditions, offering protection against dust, moisture, and mechanical wear.
- Compact Design: The M18 body ensures easy integration into tight spaces and simplifies mounting in a variety of industrial applications.
- Wide Range of Applications: Ideal for use in applications such as material handling, sorting systems, packaging, and automated manufacturing where precise detection is required.

TECHNICAL DATA

Electrical connection	Embedded 2m cable
Housing	M18
IP class	IP67

LED indication	Yes
Material of body	PBT
Output	NPN, LO / DO Selectable
Photocell technology	Optical Fibre Amplified
Supply voltage dc max	30 V DC
Supply voltage dc min	10 V DC
Temperature operational max	70 °C
Temperature operational min	-25 °C

dimensions (mm)



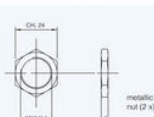
dimensions (mm)

accessories included in all plastic models



dimensions (mm)

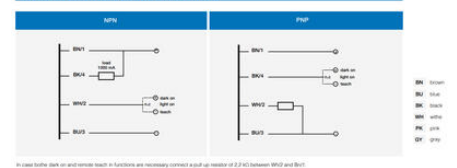
accessories included in all metallic models



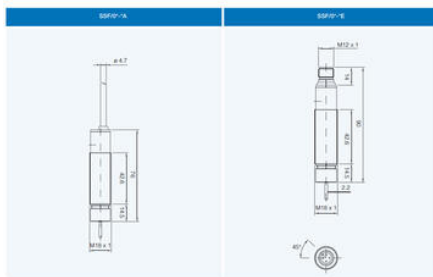
plug



electrical diagrams of the connections



dimensions (mm)



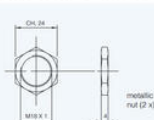
dimensions (mm)

accessories included in all plastic models



dimensions (mm)

accessories included in all metallic models



plug



electrical diagrams of the connections

