

## 6SL3055-0AA00-5BA1

Industrial automation components

|                       |                                  |
|-----------------------|----------------------------------|
| <b>Manufacturer</b>   | Siemens                          |
| <b>Catalog number</b> | 6sl3055-0aa00-5ba1               |
| <b>Category</b>       | Industrial automation components |
| <b>Product type</b>   | Industrial automation components |
| <b>Status</b>         | Active product                   |

### Technical specification

|  |               |
|--|---------------|
| <b>Weight</b>                          | 0.85 kgs      |
| <b>Industrial System</b>               | sinamics      |
| <b>Product Type</b>                    | Sensor        |
| <b>Weight</b>                          | 800 g         |
| <b>Mounting Method</b>                 | Cabinet mount |
| <b>Supply Voltage (Electronics)</b>    | 24 V DC       |
| <b>Supply Voltage (Encoder System)</b> | 5 V DC        |
| <b>Interface Baud Rate</b>             | 100 kHz       |
| <b>Evaluable Encoder Frequency</b>     | 500 kHz       |
| <b>Maximum Encoder Cable Length</b>    | 100 m         |
| <b>Protection Rating</b>               | IP20          |

### Description

The Siemens 6SL3055-0AA00-5BA1 is a sensor module from the SINAMICS S120 series, designed for integration in cabinet-mounted setups. It operates with a 24 V DC power supply for its electronics and a 5 V DC supply for the encoder system. The module features a front panel LED indicator for status monitoring and utilizes M4 screws for the protective earth connection, with a recommended tightening torque of 1.8 Nm. Weighing 800 grams, it supports encoder frequencies up to 500 kHz and can handle a maximum encoder cable length of 100 meters. The module communicates via a serial synchronous interface at a baud rate of 100 kHz and has a protection rating of IP20, making it suitable for environments with limited exposure to dust or moisture. Power loss during operation is less than 10 W, contributing to energy efficiency.