

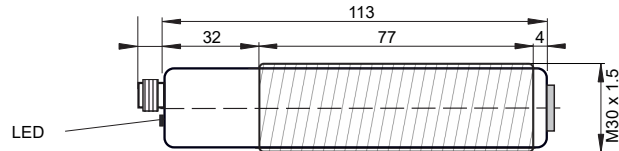
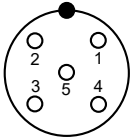
FTS-BAA-SAX-OP Proximity sensor



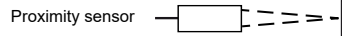
Technical Data	FTS-BAA-SAX-OP
Laser class	Laser, visible red, 650nm, class II
Measuring range	1.5m
Optical power	< 1mW
Output type	push-pull, max. 100mA, short circuit protected
Supply voltage, Ue	24VDC ±10%
Absolute maximum supply voltage, Um	30VDC
Current consumption	66mA
Power consumption	1.6W
Switching frequency	100 Hz
Housing	M30, brass Ms 58, nickel plated
Enclosure rating	IP67
Ambient working temperature range, T _{amb}	-20°C up to +50°C
Storage temperature range	-20°C up to +70°C
Electrical connection	Lumberg, M12 male, type RSF 5, 5 pins

Wiring and Dimensions

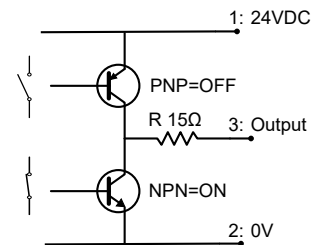
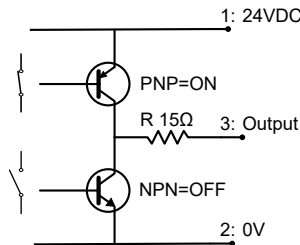
1	+24VDC
2	NC
3	GND
4	OUT
5	PE



Function and LED Indication



Output circuitry



Operating Manual / EU-declaration of conformity

Function

The sensor detects objects blocking the laser beam up to the specified measuring range. The output and LED are either ON or OFF depending on if an object is blocking the beam or not.

General safety

The sensor must not be used for Accident-Prevention! In worst case the output can change to any state! When installing and operating the product, it is necessary to take into consideration all relevant international and other national regulations.

Safety information for laser class 2 devices

By the installation, the going into operation and the application, it is necessary to take into consideration the valid rule EN 60825-1/-2 (Parts 12.5.1/12.6.2). Laser Class 2 without connected fibre optics. Do not stare into the beam!

Maintenance

No special maintenance is required.
The equipment must only be repaired or serviced by the manufacturer.

General notes and disposal

We reserve the right to modify our products. Our products are designed in such a way, that it has the least possible adverse effect on the environment. It neither emits or contains any damaging or siliconized substances and use a minimum of energy and resources. No longer usable or irreparable units must be disposed of in accordance with local waste disposal regulations.

EU-Declaration of Conformity

The product meets the requirements of the following standards and directives:
EMC directive 2014/30/EU, Machine directive 2006/42/EC, RoHS directive 2011/65/EU
Pablo Ledergerber, Matrix Elektronik AG, is authorized to generation of documentation.
The conformity of the devices with all used standards, directives and EC-type examination certificates and the observation of the Quality Management System ISO 9001:2015, declares:

Ehrendingen, 9.7.2025

Pablo Ledergerber, Matrix Elektronik AG

FTS-BAA-SAX-OP_e1/2025-07-09/MP

Tippkemper-Matrix GmbH
 Meegerner Str. 43, D-51491 Overath
 Tel.: +49 2206 9566-0, Fax -19
 info@tippkemper-matrix.de

Matrix Elektronik AG (Manufacturer)
 Kirchweg 24, CH-5420 Ehrendingen
 Tel.: +41 56 20400-20, Fax -29
 info@matrix-elektronik.com