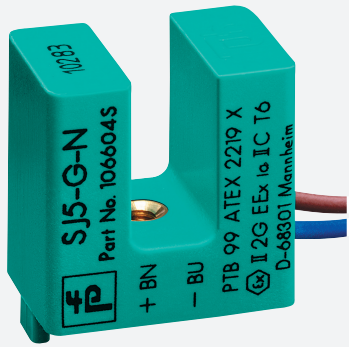


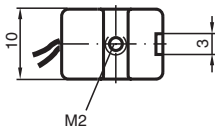
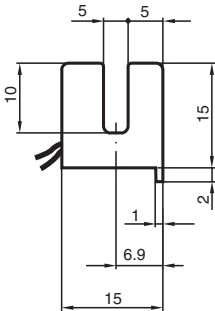
Inductive slot sensor

SJ5-G-N

■ 5 mm slot width



Dimensions



Technical Data

General specifications

Switching function	Normally closed (NC)
Output type	NAMUR
Slot width	5 mm
Depth of immersion (lateral)	5 ... 7 mm , typ. 6 mm
Output type	2-wire

Nominal ratings

Nominal voltage	U_o	8.2 V (R_i approx. 1 k Ω)
Operating voltage	U_B	5 ... 25 V
Switching frequency	f	0 ... 2000 Hz
Hysteresis	H	0.05 ... 0.65 mm

Current consumption

Measuring plate not detected	≥ 3 mA at nominal voltage
Measuring plate detected	≤ 1 mA at nominal voltage

Functional safety related parameters

MTTF _d	9060 a
Mission Time (T_M)	20 a
Diagnostic Coverage (DC)	0 %

Release date: 2025-06-13 Date of issue: 2025-06-18 Filename: 70132999_eng.pdf

Technical Data

Compliance with standards and directives

Standard conformity

NAMUR	EN 60947-5-6:2000 IEC 60947-5-6:1999
-------	---

Standards	EN IEC 60947-5-2
-----------	------------------

Approvals and certificates

IECEX approval

Equipment protection level Ga	IECEX PTB 11.0091X
-------------------------------	--------------------

Equipment protection level Gb	IECEX PTB 11.0091X
-------------------------------	--------------------

Equipment protection level Da	IECEX PTB 11.0091X
-------------------------------	--------------------

Equipment protection level Mb	IECEX PTB 11.0091X
-------------------------------	--------------------

ATEX approval

Equipment protection level Ga	PTB 99 ATEX 2219 X
-------------------------------	--------------------

Equipment protection level Gb	PTB 99 ATEX 2219 X
-------------------------------	--------------------

Equipment protection level Da	PTB 99 ATEX 2219 X
-------------------------------	--------------------

UL approval

	cULus Listed, General Purpose
--	-------------------------------

Ordinary Location	E87056
-------------------	--------

Hazardous Location	E501628
--------------------	---------

Control drawing	116-0453
-----------------	----------

CCC approval

Hazardous Location	2020322315002306
--------------------	------------------

NEPSI approval

NEPSI certificate	GYJ16.1391X
-------------------	-------------

TIIS approval

	on request
--	------------

Marine approval

	DNVGL TAA00001A5
--	------------------

Ambient conditions

Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)
---------------------	---------------------------------

Mechanical specifications

Connection type	flexible leads LiY
-----------------	--------------------

Housing material	PBT
------------------	-----

Degree of protection	IP67
----------------------	------

Cable

Cable diameter	1.1 mm ± 0.1 mm
----------------	-----------------

Bending radius	> 10 x cable diameter
----------------	-----------------------

Material	PVC
----------	-----

Core cross section	0.14 mm ²
--------------------	----------------------

Length	L	500 mm
--------	---	--------

Dimensions

Height	15 mm
--------	-------

Width	10 mm
-------	-------

Length	15 mm
--------	-------

General information

Use in the hazardous area	see instruction manuals
---------------------------	-------------------------

Connection Assignment

