## Inductive sensor

# NRN10-12GM40-E2-IO-C

- 10 mm non-flush
- Reduction factor = 1
- Magnetic field resistant
- Weld Immune
- IO-Link interface for service and process data
- Switch point mode or window mode can be set
- Switching function, stability alarm and pulse extension can be set

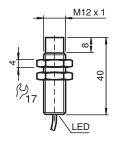


#### **Function**

Reduction factor 1 sensors reliably detect different metals with the same switch state.

The integrated IO-Link interface enables clear identification of the sensor and diagnosis of the sensor condition. When using the sensor, parameters and operating modes can be optimally configured specifically for the intended application. In addition to setting the switching function and a pulse extension, the user can select either switch point mode or window mode in combination with a stability alarm. In switch point mode, the stability alarm signals the detection of an object in the area between the assured operating distance and operating distance sn. In window mode, it signals the detection of an object below the window between operating distance sn and the nearest operating distance. A stability alarm is displayed to the user via a flashing LED and process data.

#### **Dimensions**



### **Technical Data**

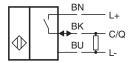
General specifications		
Switching function		Normally open/closed (NO/NC) programmable
Output type		PNP
Rated operating distance	Sn	10 mm (factory setting)
Near operating distance		8 mm (can be activated by software)
Installation		non-flush
Output polarity		DC
Assured operating distance	Sa	0 8.1 mm
Reduction factor r <sub>Al</sub>		1
Reduction factor r <sub>Cu</sub>		1
Reduction factor r <sub>304</sub>		1
Reduction factor r <sub>St37</sub>		1
Output type		3-wire
Nominal ratings		
Operating voltage	U <sub>B</sub>	10 30 V DC
Switching frequency	f	0 1300 Hz (switch point mode) 0 80 Hz (window mode, switch point mode with stability alarm)

Release date: 2025-01-10 Date of issue: 2025-01-10 Filename: 306533-0004\_eng.pdf

Ambient temperature       -25 70 °C (-13 158 °F)         Storage temperature       -40 85 °C (-40 185 °F)	Technical Data		
Reverse polarity protection	Hysteresis	н	tvn 3 %
Short-incriat protection	•		
Voltage drop			
Operating current         I,         00.5 mA typ. 80 μA at 25 °C           Oif state current         I,         00.5 mA typ. 80 μA at 25 °C           No-load supply current         Ig. s. 15 mA           Time delay before availability         t,         max. 180 ms           Constant magnetic field         B         200 mT           Alternating magnetic field         B         200 mT           Functional safety related parameters         Functional safety related parameters           MTTF <sub>F</sub> 382 a           Mission Time (T <sub>x</sub> )         20 a           Diagnosis Coverage (DC)         0 %           Interface         Interface           Interface         Interface           Interface type         0 -20114 (via C/C)           IO-Link revision         1.1           Device ID         0-20114 (2101524)           Transfer rate         COM2 (38.4 kBi/s)           Min. cycle time         2.3 ms           Process data width         Process data output (control system side): 2 Bit Process data output (sontrol system side): 2 Bit Process data output (sontrol system side): 3 Bit Process data output (sontrol system side): 3 Bit Process data output (sontrol system side): 2 Bit Process data output (sontrol sy		11.	
Off-state current         I <sub>V</sub> 0 0.5 mA typ. 60 μA at 25 °C           No-load supply current         I <sub>V</sub> 5 15 mA           I'me delay before availability         I <sub>V</sub> max. 150 ms           Constant magnetic field         B         200 mT           Allemating magnetic field         B         200 mT           Status indicator         LED yellow           Functional safety related parameters         MTFF,         3 362 a           Mission Time (Tr <sub>W</sub> )         20 a           Diagnostic Coverage (DC)         0 %           Interface         Interface           Interface type         10-Link (via C/C)           Interface type         10-Link (via C/C)           Interface type         0 x201114 (2101524)           Interface type         0 x201114 (2101524)           Min. cycle time         2.3 ms           Process data width         Process data urbut (control system side): 2 Bt           Process data width         Process data urbut (control system side): 2 Bt           SIO mode support         yes           SIO mode support         yes           Standard conformity         yes           Standard conformity         EN IEC 60947-5-2           Approvals and certificates         II <td></td> <td></td> <td></td>			
No-lead supply current			
Time delay before availability         I,         max. 150 ms           Constant magnetic field         B         200 mT           Status indicator         LED yellow           Functional safety related parameters           MITTF <sub>e</sub> 362 a           Mission Time (Tw)         20 a           Diagnostic Coverage (DC)         0 %           Interface Oxpre         IO-Link (via C/O)           Interface Upo         1.1           Interface Delay         1.1           Periodic ID         0 x201114 (2101524)           Transfer rate         COM2 (384 kBirls)           Min. cycle time         2.3 ms           Process data width         Process data input (control system side): 2 Bit Process data width           Process data width         Process data output (control system side): 7 one           SIO mode support         yes           Compatible master port type         A           Compatible master port type         Process data width           SID mode support         yes           Compatible master port type         A           Compatible master port type         B N IEC 60947-5-2           Approvals         ID 60 V           Rate dimulation voltage         Ump           Rate of i			
Constant magnetic field         B         200 mT           Alternating magnetic field         B         200 mT           Status indicator         LED yellow           Functional safety related parameters           MITTG_A         362 a           Mission Time (Tr_a)         20 a           Diagnostic Coverage (DC)         a %           Interface           Interface type         CoNe(20114 (2101524)         Tender type         Interface type (Device In)			
Alternating magnetic field   B   200 mT			
LED yellow	-		
### Functional safety related parameters  ### MTTF <sub>4</sub>   362 a   Mission Time (T <sub>M</sub> )   20 a   Diagnostic Coverage (DC)   0 %   Interface		Ь	
MTTF₀         362 a           Mission Time (T₀)         20 a           Diagnostic Coverage (DC)         0 %           Interface         Interface type         I O-Link (via C/O)           Inclain cap type         0 x201114 (2101524)           Transfer rate         COM2 (98.4 kBl/s)           Min. cycle lime         2.3 ms           Process data width         Process data input (control system side): 2 Bit           Process data width         Process data input (control system side): none           SIO mode support         yes           Compatible master port type         A           Compatible master port type         A           Compliance with standards and directives         Ves           Standard conformity         Standard conformity           Standard conformity         Standard conformity           Standard conformity         II           Rated insulation voltage         U, 60 V           Rated insulation voltage         U, 60 V           Rated insulation voltage         U, 60 V           Rated impulse withstand voltage         U, 60 V           CC capproval         CC capproval / marking not required for products rated ≤36 V           Ambient temperature         40 85 °C (-40 185 °F)           Storage temper			LED yellow
Mission Time (T <sub>M</sub> )         20 a           Diagnostic Coverage (DC)         0 %           Interface type         IC-Link (via C/Q)           Interface type         IC-Link (via C/Q)           LO-Link revision         1.1           Device ID         0x201114 (2101524)           Transfer rate         COM2 (38.4 kBit/s)           Min. cyclo time         2.3 ms           Process data width         Process data input (control system side): 2 Bit Process data width           SIO mode support         yes           Compatible master port type         A           Standard conformity         III           Standard conformity         III           Standard conformity         III           Rated insulation voltage         U, 60 V           Rated insulation voltage         U, 60 V           Rated insulation voltage         U, 60 V           Rated insulation voltage         U, 20 Ungstein (a) Septimental voltage           CCC approval         0 CCC approval / marking			362.5
Diagnostic Coverage (DC)   0 %     Interface			
Interface   Interface type			
Interface type   IO-Link (via G/Q )   IO-Link (version   1.1			0 %
O-Link revision   1.1   Ox201114 (2101524)     Device ID			10 Link (via C/O)
Device ID         0x201114 (2101524)           Transfer rate         COM2 (38.4 kBlv/s)           Min. cycle time         2.3 ms           Process data width         Process data input (control system side): 2 Bit Process data output (control system side): none           SIO mode support         yes           Compatible master port type         A           Compliance with standards and directives         Image: control output (control system side): none           Standard conformity         Frost (200 more)           Standard conformity         Frost (200 more)           Standards         EN IEC 60947-5-2           Approvals and certificates         II           Protection class         II           Rated insulation voltage         U <sub>i</sub> 60 V           Rated insulation voltage         U <sub>i</sub> 800 V           Lapproval         CULsa Listed, General Purpose           CLC approval         CCC approval / marking not required for products rated ≤36 V           Ambient temperature         -45 70 °C (-13 158 °F)           Storage temperature         -40 85 °C (-40 185 °F)           Mechanical specifications         Frost (-13 158 °F)           Connection type         cable           Housing material         B rass, PTFE coated <tr< td=""><td>**</td><td></td><td></td></tr<>	**		
Transfer rate         COM2 (38.4 kBit/s)           Min. cycle time         2.3 ms           Process data width         Process data input (control system side): 2 Bit Process data output (control system side): none           SIO mode support         yes           Compatible master port type         A           Compliance with standards and directives         Compliance with standards and directives           Standard conformity           Standards         EN IEC 60947-5-2           Approvals and certificates         II           Protection class         II           Rated insulation voltage         U <sub>1</sub> 60 V           Rated insulation voltage         U <sub>1</sub> 60 V           Rated insulation voltage         U <sub>1</sub> 80 V           UL approval         CCC approval Provided and Purpose Class 2 power source         CCC approval / marking not required for products rated ≤36 V           Ambient conditions         Ambient conditions           Ambient lemperature         -25 70 °C (-13 158 °F)           Mechanical specifications         Connection type         cable           Connection type         cable         PS           Degree of protection         IP67           Cable         PS           Wire end ferrules <th< td=""><td></td><td></td><td></td></th<>			
Min. cycle time         2.3 ms           Process data width         Process data input (control system side): 2 Bit Process data output (control system side): none           SIO mode support         A           Compatible master port type         A           Compliance with standards and directives           Standard conformity         Standards           Standards         EN IEC 60947-5-2           Approvals and certificates         II           Protection class         II           Rated insulation voltage         U <sub>i</sub> 60 V           Rated impulse withstand voltage         U <sub>i</sub> 60 V           Rated insulation voltage         U <sub>i</sub> 60 V           Rated insulation voltage         U <sub>i</sub> 80 V           Rated insulation voltage         U <sub>i</sub> 80 V           Automatic voltage         U <sub>i</sub> 80 V           Aberitage voltage         CCC approval         CCC approval / marking not required for products rated ≤36 V           Mechanical specifications         a dale         a dale			
Process data width Process data input (control system side): 2 Bit Process data output (control system side): none  SIO mode support yes A  Compatible master port type A  Compliance with standards and directives  Standard conformity  Standards ENIEC 60947-5-2  Approvals and certificates  Protection class III  Rated insulation voltage U, 60 V  Rated impulse withstand voltage UL approval Class 2 power source  CCC approval cCC approval Proval Class 2 power source  CCC approval CCC approval Proval Class 2 power source  CCC approval CCC approval Proval Class 2 power source  COC approval CCC approval Proval Class 2 power source  CCC approval CCC approval Proval Class 2 power source  CCC approval CCC approval Proval Class 2 power source  CCC approval CCC approval Proval Class 2 power source  COC approval CCC approval Proval Class 2 power source  COC approval CCC approval Proval Class 2 power source  COC approval Proval Class 2 power source  COC approval Proval Class 2 power source  COC approval Proval Class 2 power source  CCC approval Proval Class 2 power source  COC approval Proval Class 2 power source  FN E Class 2 power source  FN E Class 2 power source  Class 2 power source  Class 2 power source  FN E Class 2 power source  Class 2 power source  FN E Class 2 power source  Class 2 power source  FN E Class 2 power source  Class 2 power source  FN E Class 2 power source  FN E Class 2 power source  FN E Class 2 power source  Class 2 power source  FN E Class 2 power source  FN E Class 2 power source			
Process data output (control system side): none   yes			
Compatible master port type         A           Compliance with standards and directives           Standard conformity           Standards         EN IEC 60947-5-2           Approvals and certificates         II           Rated insulation voltage         U, 60 V           Rated impulse withstand voltage         U, 60 V           Rated impulse withstand voltage         U, 60 V           UL approval         cUL us Listed, General Purpose Class 2 power source           CCC approval         CC 2 approval / marking not required for products rated ≤36 V           Ambient conditions         Ambient temperature         2-25 70 °C (-13 158 °F)           Storage temperature         40 85 °C (-40 185 °F)           Mechanical specifications         Connection type         cable           Housing material         B rass, PTFE coated           Sensing face         PPS           Degree of protection         IP67           Cable         IP67           Wire end ferrules         4,3 mm ± 0.1 mm           Cable diameter         4,3 mm ± 0.1 mm           Bending radius         > 10 x cable diameter           Material         PUR           Color         Iblack           Number of cores         3           <			Process data output (control system side): none
Standard conformity Standards  Approvals and certificates  Protection class Rated insulation voltage U <sub>I</sub> 60 V Rated insulation voltage UU <sub>I</sub> 800 V UL approval  CCC approval  CCC approval  Ambient conditions  Ambient emperature Abroade sertifications  Connection type  Cable  Housing material Sensing face  PPS  Degree of protection Wire end ferrules  Cable diameter  Metaerial Material PUR  Color Number of cores  Core cross section  1			
Standards         Standards         EN IEC 60947-5-2           Approvals and certificates         II           Protection class         II           Rated insulation voltage         U <sub>I</sub> 60 V           Rated impulse withstand voltage         U <sub>Imp</sub> 800 V           UL approval         cULs Listed, General Purpose Class 2 power source         CCC approval         cCC approval / marking not required for products rated ≤36 V           Ambient conditions         CCC approval / marking not required for products rated ≤36 V           Ambient temperature         40 85 °C (-40 185 °F)           Mechanical specifications         Connection type         cable           Housing material         B rass, PTFE coated           Sensing face         PPS           Degree of protection         IP67           Cable         Wire end ferrules         yes           Cable diameter         4.3 mm ± 0.1 mm           Bending radius         > 10 x cable diameter           Material         PUR           Color         black           Number of cores         3           Core cross section         0.34 mm²           Length         L         2 m           Mass	, , ,		A
Standards         EN IEC 60947-5-2           Approvals and certificates         III           Protection class         III           Rated insulation voltage         U <sub>i</sub> 60 V           Rated impulse withstand voltage         U <sub>imp</sub> 800 V           UL approval         cULus Listed, General Purpose Class 2 power source           CCC approval         cCC approval / marking not required for products rated ≤36 V           Ambient conditions           Ambient conditions         CCC approval / marking not required for products rated ≤36 V           Ambient temperature         -25 70 °C (-13 158 °F)           Storage temperature         -40 85 °C (-40 185 °F)           Mechanical specifications         Connection type         cable           Connection type         cable         Brass, PTFE coated           Sensing face         PPS         PS           Degree of protection         IP67         PS           Cable         Vire end ferrules         yes           Cable diameter         4.3 mm ± 0.1 mm         PUR           Color         black           Number of cores         3         Core cross section         0.34 mm²           Length         L         2 m           Mass			
Approvals and certificates  Protection class Rated insulation voltage U <sub>i</sub> 60 V Rated impulse withstand voltage UL approval UL approval UL approval CCC approval CCC approval CCC approval CCC approval Ambient conditions  Ambient temperature 2-25 70 °C (-13 158 °F) Storage temperature 4-0 85 °C (-40 185 °F)  Mechanical specifications  Connection type Cable Housing material Brass, PTFE coated Sensing face PPS Degree of protection Cable Wire end ferrules Vire end ferrules Cable diameter Bending radius Material PUR Color Number of cores 3 Core cross section Length L 2 m Mass	·		
Protection class         II           Rated insulation voltage         U <sub>I</sub> 60 V           Rated impulse withstand voltage         U <sub>I</sub> 800 V           UL approval         cULus Listed, General Purpose Class 2 power source           CCC approval         cCC approval / marking not required for products rated ≤36 V           Ambient conditions         Ambient temperature         -25 70 °C (-13 158 °F)           Storage temperature         -40 85 °C (-40 185 °F)           Mechanical specifications         Connection type         cable           Housing material         Brass, PTFE coated         Brass, PTFE coated           Sensing face         PPS         PPS           Degree of protection         IP67         PPS           Cable         Wire end ferrules         yes           Cable diameter         4.3 mm ± 0.1 mm         PPS           Bending radius         > 10 x cable diameter           Material         PUR           Color         black           Number of cores         3           Core cross section         0.34 mm²           Length         L         2 m           Mass			EN IEC 60947-5-2
Rated insulation voltage Pated impulse withstand voltage UImp Boo V  CCC approval CCC approval CCC approval CCC approval CCC approval CCC approval Ambient conditions Ambient temperature Storage temperature Tonnection type Cable Housing material Sensing face PPS Degree of protection Cable Wire end ferrules Uimp Bending radius Material PUR Material Color Number of cores Core cross section Length Mass  CULus Listed, General Purpose Culus Listed, General	Approvals and certificates		
Rated impulse withstand voltage UL approval CUL steed, General Purpose Class 2 power source CCC approval CCC approval CCC approval CCC approval Ambient conditions Ambient temperature 3-25 70 °C (-13 158 °F) Storage temperature 40 85 °C (-40 185 °F)  Mechanical specifications Connection type cable Housing material Sensing face PPS Degree of protection Cable Wire end ferrules View end ferrules Sending radius An m ± 0.1 mm Bending radius Material PUR Color Material PUR Color Number of cores 3 Core cross section Length L 2 m Mass	Protection class		
UL approval cULus Listed, General Purpose Class 2 power source   CCC approval CCC approval / marking not required for products rated ≤36 V   Ambient conditions -25 70 °C (-13 158 °F)   Ambient temperature -25 70 °C (-13 158 °F)   Storage temperature -40 85 °C (-40 185 °F)   Mechanical specifications   Connection type cable   Housing material Brass, PTFE coated   Sensing face PPS   Degree of protection IP67   Cable Wire end ferrules   Wire end ferrules yes   Cable diameter 4.3 mm ± 0.1 mm   Bending radius > 10 x cable diameter   Material PUR   Color black   Number of cores 3   Core cross section 0.34 mm²   Length L 2 m   Mass 78 g	Rated insulation voltage	Ui	60 V
Class 2 power source  CCC approval  Ambient conditions  Ambient temperature Ambient temperature Storage temperature -25 70 °C (-13 158 °F)  Storage temperature -40 85 °C (-40 185 °F)  Mechanical specifications  Connection type Housing material Sensing face PPS Degree of protection PPS Degree of protection Surre and ferrules Wire end ferrules Vire end ferrules Pus Cable diameter A.3 mm ± 0.1 mm Bending radius PUR Color Material PUR Color Number of cores Core cross section Length L 2 m Mass  CC (-13 158 °F)  At length required for products rated ≤36 V  A marking not required for products rated ≤36 V  A marking not required for products rated ≤36 V  A marking not required for products rated ≤36 V  Able sale v  -25 70 °C (-13 158 °F)  Bending required for products rated ≤36 V  Able sale v  -25 70 °C (-13 158 °F)  Brass, PTFE coated  Brass, PTFE coated  Brass, PTFE coated  Brass, PTFE coated  -40 85 °C (-40 185 °F)  Brass, PTFE coated  Brass, PTFE coated  -40 85 °C (-40 185 °F)  Brass, PTFE coated  Brass, PTFE coated  -40 85 °C (-40 185 °F)  Brass, PTFE coated  -40 85 °C (-40 185 °F)  Brass, PTFE coated  -40 85 °C (-40 185 °F)  Brass, PTFE coated  -40 85 °C (-40 185 °F)  Brass, PTFE coated  -40 85 °C (-40 185 °F)  Brass of C (-40 185 °F)  -40 85 °C (-40	Rated impulse withstand voltage	$U_{imp}$	800 V
Ambient conditions  Ambient temperature  Ambient temperature  Storage temperature  -40 85 °C (-40 185 °F)  Mechanical specifications  Connection type  cable  Housing material  Sensing face  PPS  Degree of protection  Cable  Wire end ferrules  Cable diameter  Bending radius  -10 x cable diameter  Material  PUR  Color  Number of cores  Core cross section  Length  L 2 m  Mass	UL approval		Class 2 power source
Ambient temperature         -25 70 °C (-13 158 °F)           Storage temperature         -40 85 °C (-40 185 °F)           Mechanical specifications         cable           Connection type         cable           Housing material         Brass, PTFE coated           Sensing face         PPS           Degree of protection         IP67           Cable         Wire end ferrules           Cable diameter         4.3 mm ± 0.1 mm           Bending radius         > 10 x cable diameter           Material         PUR           Color         black           Number of cores         3           Core cross section         0.34 mm²           Length         L         2 m           Mass         78 g	CCC approval		CCC approval / marking not required for products rated ≤36 V
Storage temperature         -40 85 °C (-40 185 °F)           Mechanical specifications         cable           Connection type         cable           Housing material         Brass, PTFE coated           Sensing face         PPS           Degree of protection         IP67           Cable         yes           Wire end ferrules         yes           Cable diameter         4.3 mm ± 0.1 mm           Bending radius         > 10 x cable diameter           Material         PUR           Color         black           Number of cores         3           Core cross section         0.34 mm²           Length         L         2 m           Mass         78 g	Ambient conditions		
Mechanical specifications           Connection type         cable           Housing material         Brass, PTFE coated           Sensing face         PPS           Degree of protection         IP67           Cable         Wire end ferrules           Vire end ferrules         yes           Cable diameter         4.3 mm ± 0.1 mm           Bending radius         > 10 x cable diameter           Material         PUR           Color         black           Number of cores         3           Core cross section         0.34 mm²           Length         L         2 m           Mass         78 g	Ambient temperature		-25 70 °C (-13 158 °F)
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Housing material         Brass, PTFE coated           Sensing face         PPS           Degree of protection         IP67           Cable         Vire end ferrules           Wire end ferrules         yes           Cable diameter         4.3 mm ± 0.1 mm           Bending radius         > 10 x cable diameter           Material         PUR           Color         black           Number of cores         3           Core cross section         0.34 mm²           Length         L         2 m           Mass         78 g	Mechanical specifications		
Sensing face         PPS           Degree of protection         IP67           Cable           Wire end ferrules         yes           Cable diameter         4.3 mm ± 0.1 mm           Bending radius         > 10 x cable diameter           Material         PUR           Color         black           Number of cores         3           Core cross section         0.34 mm²           Length         L         2 m           Mass         78 g	Connection type		cable
Degree of protection         IP67           Cable         Vire end ferrules         yes           Cable diameter         4.3 mm ± 0.1 mm           Bending radius         > 10 x cable diameter           Material         PUR           Color         black           Number of cores         3           Core cross section         0.34 mm²           Length         L         2 m           Mass         78 g	Housing material		Brass, PTFE coated
Cable           Wire end ferrules         yes           Cable diameter         4.3 mm ± 0.1 mm           Bending radius         > 10 x cable diameter           Material         PUR           Color         black           Number of cores         3           Core cross section         0.34 mm²           Length         L         2 m           Mass         78 g	Sensing face		PPS
Wire end ferrules         yes           Cable diameter         4.3 mm ± 0.1 mm           Bending radius         > 10 x cable diameter           Material         PUR           Color         black           Number of cores         3           Core cross section         0.34 mm²           Length         L         2 m           Mass         78 g	Degree of protection		IP67
Cable diameter       4.3 mm ± 0.1 mm         Bending radius       > 10 x cable diameter         Material       PUR         Color       black         Number of cores       3         Core cross section       0.34 mm²         Length       L       2 m         Mass       78 g	Cable		
Bending radius         > 10 x cable diameter           Material         PUR           Color         black           Number of cores         3           Core cross section         0.34 mm²           Length         L         2 m           Mass         78 g	Wire end ferrules		yes
Material         PUR           Color         black           Number of cores         3           Core cross section         0.34 mm²           Length         L         2 m           Mass         78 g	Cable diameter		$4.3 \text{ mm} \pm 0.1 \text{ mm}$
Color         black           Number of cores         3           Core cross section         0.34 mm²           Length         L         2 m           Mass         78 g	Bending radius		> 10 x cable diameter
Number of cores         3           Core cross section         0.34 mm²           Length         L         2 m           Mass         78 g	Material		PUR
Core cross section         0.34 mm²           Length         L         2 m           Mass         78 g	Color		black
Length L 2 m Mass 78 g	Number of cores		3
Length L 2 m Mass 78 g	Core cross section		0.34 mm <sup>2</sup>
Mass 78 g	Length	L	
			78 g
	Dimensions		

# Length 40 mm Diameter 12 mm Factory settings Default setting operating mode = switch point mode with stability alarm switching function = Normally open (NO) switching distance = 10 mm General information Scope of delivery 2 self locking nuts in scope of delivery

#### Connection



# **Function Principle**

#### Switching output modes

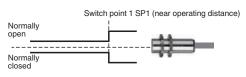
Switch point mode at rated operating distance  $\boldsymbol{s}_n$ 

Switch point 2 SP 2 (rated operating distance s<sub>n</sub>)

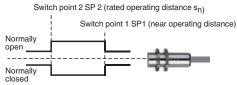
Normally open

Normally closed

Switch point mode with near operating distance



#### Window mode



# **Function Principle**

#### Stability alarm

Switch point mode with stability alarm (factory default)

Switch point 2 SP 2 (rated operating distance s<sub>n</sub>)

Normally open

Normally closed

Q

LED

Window mode with stability alarm

Switch point 2 SP 2 (rated operating distance s<sub>n</sub>)

Switch point 1 SP1 (near operating distance)

Normally open

Q

Q

Normally closed