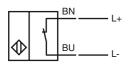
C

NCB5-18GM40-N0-10M

Features

- Comfort series
- 5 mm flush

Connection



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A	CC	es	su	וונ	es

EXG-18 Quick mounting bracket with dead stop BF 18 Mounting flange, 18 mm

Technical Data

Dimensions

Installation Output polarity Assured operating distance Sa Reduction factor r _{Al} Reduction factor r _{Cu} Reduction factor r ₃₀₄ Nominal voltage Vo Switching frequency f Hysteresis H Reverse polarity protection Short-circuit protection Current consumption Measuring plate not detected Measuring plate indication Functional safety related parameters	NAMUR, NC 5 mm flush NAMUR 0 4.05 mm 0.35 0.3 0.74 8 V 0 400 Hz 1 15 typ. 5 % reverse polarity protected yes ≥ 3 mA ≤ 1 mA all direction LED, yellow
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	5 mm flush NAMUR 0 4.05 mm 0.35 0.3 0.74 8 V 0 400 Hz 1 15 typ. 5 % reverse polarity protected yes ≥ 3 mA ≤ 1 mA
Installation Output polarity Assured operating distance s _a Reduction factor r _{Al} Reduction factor r _{S04} Nominal ratings Nominal voltage U _o Switching frequency f Hysteresis H Reverse polarity protection Short-circuit protection Current consumption Measuring plate detected Measuring plate detected Switching state indication Functional safety related parameters MTTF _d	flush NAMUR 0 4.05 mm 0.35 0.3 0.74 8 V 0 400 Hz 1 15 typ. 5 % reverse polarity protected yes ≥ 3 mA ≤ 1 mA
Installation Output polarity Assured operating distance s _a Reduction factor r _{Al} Reduction factor r _{S04} Nominal ratings Nominal voltage U _o Switching frequency f Hysteresis H Reverse polarity protection Short-circuit protection Current consumption Measuring plate detected Measuring plate detected Switching state indication Functional safety related parameters MTTF _d	NAMUR 0 4.05 mm 0.35 0.3 0.74 8 V 0 400 Hz 1 15 typ. 5 % reverse polarity protected yes ≥ 3 mA ≤ 1 mA
Assured operating distance s _a Reduction factor r _{Al} Reduction factor r _{CU} Reduction factor r ₃₀₄ Nominal ratings Nominal voltage U _o Switching frequency f Hysteresis H Reverse polarity protection Short-circuit protection Current consumption Measuring plate detected Measuring plate detected Switching state indication Functional safety related parameters MTTF _d	0 4.05 mm 0.35 0.3 0.74 8 V 0 400 Hz 1 15 typ. 5 % reverse polarity protected yes ≥ 3 mA ≤ 1 mA
Reduction factor r _{Al} Reduction factor r _{Cu} Reduction factor r ₃₀₄ Nominal ratings Nominal voltage U _o Switching frequency f Hysteresis H Reverse polarity protection Short-circuit protection Current consumption Measuring plate detected Switching state indication Functional safety related parameters MTTF _d Ketter	0.35 0.3 0.74 8 V 0 400 Hz 1 15 typ. 5 % reverse polarity protected yes ≥ 3 mA ≤ 1 mA
Reduction factor r _{Al} Reduction factor r _{Cu} Reduction factor r ₃₀₄ Nominal ratings Nominal voltage U _o Switching frequency f Hysteresis H Reverse polarity protection Short-circuit protection Current consumption Measuring plate not detected Measuring plate detected Switching state indication Functional safety related parameters MTTF _d	0.3 0.74 8 V 0 400 Hz 1 15 typ. 5 % reverse polarity protected yes ≥ 3 mA ≤ 1 mA
Reduction factor r ₃₀₄ Nominal ratings Nominal voltage Uo Switching frequency Hysteresis Reverse polarity protection Short-circuit protection Current consumption Measuring plate not detected Measuring plate detected Switching state indication Functional safety related parameters MTTFd	0.74 8 V 0 400 Hz 1 15 typ. 5 % reverse polarity protected yes ≥ 3 mA ≤ 1 mA
Nominal ratings Nominal voltage Uo Switching frequency f Hysteresis H Reverse polarity protection Short-circuit protection Current consumption Measuring plate not detected Measuring plate detected Switching state indication Functional safety related parameters MTTF _d	8 V 0 400 Hz 1 15 typ. 5 % reverse polarity protected yes ≥ 3 mA ≤ 1 mA
Nominal voltage Uo Switching frequency f Hysteresis H Reverse polarity protection Short-circuit protection Short-circuit protection Current consumption Measuring plate not detected Measuring plate detected Switching state indication Functional safety related parameters MTTF _d MTTF	0 400 Hz 1 15 typ. 5 % reverse polarity protected yes ≥ 3 mA ≤ 1 mA
Switching frequency f Hysteresis H Reverse polarity protection Short-circuit protection Current consumption Measuring plate detected Measuring plate detected Switching state indication Functional safety related parameters MTTF _d	0 400 Hz 1 15 typ. 5 % reverse polarity protected yes ≥ 3 mA ≤ 1 mA
Switching frequency f Hysteresis H Reverse polarity protection Short-circuit protection Current consumption Measuring plate not detected Measuring plate detected Switching state indication Functional safety related parameters MTTF _d	1 15 typ. 5 % reverse polarity protected yes ≥ 3 mA ≤ 1 mA
Reverse polarity protection Short-circuit protection Current consumption Measuring plate not detected Measuring plate detected Switching state indication Functional safety related parameters MTTF _d	reverse polarity protected yes ≥ 3 mA ≤ 1 mA
Short-circuit protection Current consumption Measuring plate not detected Measuring plate detected Switching state indication Functional safety related parameters MTTF _d	yes ≥ 3 mA ≤ 1 mA
Current consumption Measuring plate not detected Measuring plate detected Switching state indication Functional safety related parameters MTTF _d	- ≥ 3 mA ≤ 1 mA
Measuring plate not detected Measuring plate detected Switching state indication Functional safety related parameters MTTF _d	≤ 1 mA
Measuring plate detected Switching state indication Functional safety related parameters MTTF _d	≤ 1 mA
Switching state indication Functional safety related parameters MTTF _d	
Functional safety related parameters MTTF _d	all direction LED, yellow
MTTF _d	· ·
u	
	2040 a
	20 a
Diagnostic Coverage (DC)	0%
Ambient conditions	
Ambient temperature	-25 100 °C (-13 212 °F)
Storage temperature	-40 100 °C (-40 212 °F)
Mechanical specifications	
Connection type	cable PVC , 10 m
	0.75 mm^2
Housing material	Stainless steel 1.4305 / AISI 303
	PBT
	IP67
General information	
Use in the hazardous area	see instruction manuals
Category	1G; 2G; 3G; 1D; 3D
Compliance with standards and directives	
Standard conformity	
NAMUR	EN 60947-5-6:2000
	IEC 60947-5-6:1999
Standards	EN 60947-5-2:2007
	IEC 60947-5-2:2007
Approvals and certificates	
	al II un Lintad. Conoral Burnana
	cULus Listed, General Purpose
	cCSAus Listed, General Purpose
CCC approval	Products with a maximum operating voltage of \leq 36 V do not bear CCC marking because they do not require approval.

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ATEX 1G	
Instruction	Manual electrical apparatus for hazardous areas
Device category 1G Directive conformity Standard conformity	for use in hazardous areas with gas, vapour and mist 94/9/EG EN 60079-0:2009, EN 60079-11:2007, EN 60079-26:2007 Ignition protection "Intrinsic safety"
CE marking	Use is restricted to the following stated conditions C € 0102
Ex-identification	🐼 II 1G Ex ia IIC T6 Ga
EC-Type Examination Certificate Appropriate type Effective internal capacitance C _i	PTB 00 ATEX 2048 X NCB5-18GMN0 ≤ 95 nF ; a cable length of 10 m is considered.
Effective internal inductance L _i Cable length	≤ 100 μH ; a cable length of 10 m is considered. Dangerous electrostatic charges on the fixed connection cable must be taken into account for lengths equal to and exceeding the following values:
Explosion group IIA Explosion group IIB Explosion group IIC General	 78 cm 39 cm 6 cm The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The EC-Type Examination Certificate has to be observed. The special conditions must be adhered to! Directive 94/9/EG and hence also EC-Type Examination Certificates apply in general only to the use of electrical apparatus under atmospheric conditions. The use in ambient temperatures of > 60 °C was tested with regard to hot surfaces by the mentioned certification authority. If the equipment is not used under atmospheric conditions, a reduction of the permissible minimum ignition energies may have to be taken into consideration.
Highest permissible ambient temperature	The temperature ranges, according to temperature class, are given in the EC-Type Examination Certificate. Note: Use the temperature table for category 1 !!! The 20 % reduction in accordance with EN 1127-1:2007 has already been accounted for in the temperature table for category 1.
Installation, Comissioning	Laws and/or regulations and standards governing the use or intended usage goal must be observed. The intrinsic safety is only assured in connection with an appropriate related apparatus and according to the proof of intrinsic safety. The associated apparatus must satisfy the requirements of category ia. Due to the possible danger of ignition, which can arise due to faults and/or transient currents in the equipotential bonding system, galvanic isolation of the power supply and signal circuit is preferable. Associated apparatus without electrical isolation must only be used if the appropriate requirements of IEC 60079-14 are met.
Maintenance	No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.
Specific conditions	
Protection from mechanical danger	When used in the temperature range below -20 °C the sensor should be protected from knocks by the provision of an additional housing.
Electrostatic charging	Electrostatic charges on the metal housing components must be avoided. Dange- rous electrostatic charges on the metal housing components can be avoided by incorporating these components in the equipotential bonding.

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ATEX 2G

Instruction

Device category 2G Directive conformity Standard conformity

CE marking

Ex-identification

EC-Type Examination Certificate Appropriate type Effective internal capacitance C_i Effective internal inductance L_i General

Highest permissible ambient temperature

Installation, Comissioning

Maintenance

Specific conditions

Protection from mechanical danger

Electrostatic charging

Manual electrical apparatus for hazardous areas

for use in hazardous areas with gas, vapour and mist 94/9/EG EN 60079-0:2009, EN 60079-11:2007 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions $C \in$ 0102

🐼 II 1G Ex ia IIC T6 Ga

PTB 00 ATEX 2048 X

NCB5-18GM ...- N0 ...

 \leq 95 nF ; a cable length of 10 m is considered.

 \leq 100 μH ; a cable length of 10 m is considered.

The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The EC-Type Examination Certificate has to be observed. The special conditions must be adhered to!

Directive 94/9/EG and hence also EC-Type Examination Certificates apply in general only to the use of electrical apparatus under atmospheric conditions. The use in ambient temperatures of > 60 °C was tested with regard to hot surfaces

by the mentioned certification authority. If the equipment is not used under atmospheric conditions, a reduction of the per-

missible minimum ignition energies may have to be taken into consideration.

The temperature ranges, according to temperature class, are given in the EC-Type Examination Certificate.

Laws and/or regulations and standards governing the use or intended usage goal must be observed. The intrinsic safety is only assured in connection with an appropriate related apparatus and according to the proof of intrinsic safety.

No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.

When used in the temperature range below -20 $^\circ C$ the sensor should be protected from knocks by the provision of an additional housing.

Electrostatic charges must be avoided on the mechanical housing components. Dangerous electrostatic charges on the mechanical housing components can be avoided by incorporating these in the equipotential bonding.

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ATEX 1D

Instruction

Device category 1D Directive conformity Standard conformity

CE marking

Ex-identification

EC-Type Examination Certificate Appropriate type Effective internal capacitance C_i Effective internal inductance L General

Maximum housing surface temperature

Installation, Comissioning

Maintenance

Specific conditions

Electrostatic charging

Manual electrical apparatus for hazardous areas

for use in hazardous areas with combustible dust 94/9/FG IEC 61241-11:2002: draft; prEN61241-0:2002 type of protection intrinsic safety "iD" Use is restricted to the following stated conditions **C**€0102

(Ex) II 1D Ex iaD 20 T 108 °C (226.4 °F) The Ex-significant identification is on the enclosed adhesive label

ZELM 03 ATEX 0128 X NCB5-18GM...-N0...

 \leq 95 nF ; a cable length of 10 m is considered.

 \leq 100 μH ; a cable length of 10 m is considered.

The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual.

The EC-Type Examination Certificate has to be observed.

The special conditions must be adhered to!

The maximum surface temperature of the housing is given in the EC-Type Examination Certificate

Laws and/or regulations and standards governing the use or intended usage goal must be observed.

The intrinsic safety is only assured in connection with an appropriate related apparatus and according to the proof of intrinsic safety.

The associated apparatus must satisfy at least the requirements of category ia IIB or iaD. Because of the possibility of the danger of ignition, which can arise due to faults and/or transient currents in the equipotential bonding system, galvanic isolation in the power supply and signal circuits is preferable. Associated apparatus without electrical isolation must only be used if the appropriate requirements of IEC 60079-14 are met. The intrinsically safe circuit has to be protected against influences due to lightning.

The adhesive label provided must be affixed in the immediate vicinity of the sensor! The surface to which the label is applied must be clean, flat and free from grease! The affixed adhesive label must be readable and durable, taking account of the possibility of chemical corrosion!

When used in the isolating wall between Zone 20 and Zone 21 or Zone 21 und Zone 22 the sensor must not be exposed to any mechanical danger and must be sealed in such a way, that the protective function of the isolating wall is not impaired. The applicable directives and standards must be observed.

No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.

Electrostatic charges must be avoided on the mechanical housing components. Dangerous electrostatic charges on the mechanical housing components can be avoided by incorporating these in the equipotential bonding. The connection cables are to be laid in accordance with EN 50281-1-2 and must not normally be subjected to chaffing during use

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ATEX 3D

Note	This instruction is only valid for products according to EN 50281-1-1, valid until 30-September-2008 Note the ex-marking on the sensor or on the enclosed adhesive label
Instruction	Manual electrical apparatus for hazardous areas
Device category 3D	for use in hazardous areas with non-conducting combustible dust
Directive conformity	94/9/EG
	EN 50281-1-1 Protection via housing Use is restricted to the following stated conditions
CE marking	€0102
Ex-identification	⟨ⓑ⟩ 3D P67 T 109 °C (228.2 °F) X
General	The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The data stated in the data sheet are restricted by this operating instruction! The special conditions must be adhered to!
Installation, Comissioning	Laws and/or regulations and standards governing the use or intended usage goal must be observed.
Maintenance	No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.
Specific conditions	
Minimum series resistance R_{V}	A minimum series resistance RV is to be provided between the power supply voltage and the proximity switch in accordance with the following list. This can also be assured by using a switch amplifier.
Maximum operating voltage U_{Bmax}	The maximum permissible operating voltage UBmax must be restricted to the values given in the following list. Tolerances are not permitted.
Maximum heating (Temperature rise)	Values can be obtained from the following list, depending on the max. operating voltage Ub max and the minimum series resistance Rv.
at U _{Bmax} =9 V, R _V =562 Ω	9 K
using an amplifier in accordance with EN 60947-5-6	9К
Protection from mechanical danger	The sensor must not be mechanically damaged.
Electrostatic charging	Electrostatic charges must be avoided on the mechanical housing components. Dangerous electrostatic charges on the mechanical housing components can be avoided by incorporating these in the equipotential bonding.
Protection of the connection cable	The connection cable must be prevented from being subjected to tension and torsional loading.

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ATEX 3D (tD)	
Note	This instruction is only valid for products according to EN 61241-0:2006 and EN 61241-1:2004 Note the ex-marking on the sensor or on the enclosed adhesive label
Instruction	Manual electrical apparatus for hazardous areas
Device category 3D	for use in hazardous areas with non-conducting combustible dust
Directive conformity	94/9/EG
Standard conformity	EN 61241-0:2006, EN 61241-1:2004 Protection via housing "tD" Use is restricted to the following stated conditions
CE marking	
Ex-identification	⟨ⓑ⟩ 3D Ex tD A22 IP67 T80°C X
	The Ex-significant identification is on the enclosed adhesive label
General	The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The maximum surface temperature has been determined in accordance with method A without a dust layer on the equip- ment. The data stated in the data sheet are restricted by this operating instruction! The special conditions must be adhered to!
Installation, Comissioning	Laws and/or regulations and standards governing the use or intended usage goal must be observed. The adhesive label provided must be affixed in the immediate vicinity of the sensor! The surface to which the label is applied must be clean, flat and free from grease! The affixed adhesive label must be readable and durable, taking account of the possibility of chemical corrosion!
Maintenance	No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.
Specific conditions	
Minimum series resistance R_{V}	A minimum series resistance RV is to be provided between the power supply voltage and the proximity switch in accordance with the following list. This can also be assured by using a switch amplifier.
Maximum operating voltage $\mathrm{U}_{\mathrm{Bmax}}$	The maximum permissible operating voltage UBmax must be restricted to the values given in the following list. Tolerances are not permitted.
Maximum permissible ambient temperature T_{Umax}	Values can be obtained from the following list, depending on the max. operating voltage Ub max and the minimum series resistance Rv.
at $U_{Bmax}=9$ V, $R_V=562 \Omega$	61 °C (141.8 °F)
using an amplifier in accordance with EN 60947-5-6	61 °C (141.8 °F)
Protection from mechanical danger	The sensor must not be exposed to ANY FORM of mechanical danger.
Protection from UV light	The sensor and the connection cable must be protected from damaging UV-radiation. This can be achieved when the sensor is used in internal areas.
Electrostatic charging	Electrostatic charges must be avoided on the mechanical housing components. Dangerous electrostatic charges on the mechanical housing components can be avoided by incorporating these in the equipotential bonding.
Protection of the connection cable	The connection cable must be prevented from being subjected to tension and torsional loading.

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ATEX 3G (nL)

Instruction

Device category 3G (nL) Directive conformity Standard conformity

CE marking

Ex-identification

 $\begin{array}{l} \mbox{Effective internal capacitance } C_i \\ \mbox{Effective internal inductance } L_i \\ \mbox{General} \end{array}$

Installation, Comissioning

Maintenance

Specific conditions

Maximum permissible ambient temperature T_{Umax} at Ui = 20 V for Pi=34 mW, li=25 mA, T6 for Pi=34 mW, li=25 mA, T5 for Pi=64 mW, li=25 mA, T4-T1 for Pi=64 mW, li=25 mA, T6 for Pi=64 mW, li=25 mA, T4-T1 for Pi=169 mW, li=52 mA, T4-T1 for Pi=169 mW, li=52 mA, T5 for Pi=169 mW, li=52 mA, T4-T1 for Pi=242 mW, li=76 mA, T6 for Pi=242 mW, li=76 mA, T5 for Pi=242 mW, li=76 mA, T4-T1

Protection from mechanical danger

Protection from UV light

Electrostatic charging

Protection of the connection cable

Connection parts

for use in hazardous areas with gas, vapour and mist 94/9/EG EN 60079-15:2005 Ignition protection category "n" Use is restricted to the following stated conditions

 $\textcircled{\sc S}$ II 3G Ex nL IIC T6 X The Ex-significant identification is on the enclosed adhesive label

 \leq 95 nF ; a cable length of 10 m is considered.

 \leq 100 μH ; a cable length of 10 m is considered.

The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The data stated in the data sheet are restricted by this operating instruction! The special conditions must be observed!

Laws and/or regulations and standards governing the use or intended usage goal

must be observed. The sensor must only be operated with energy-limited circuits, which satisfy the requirements of IEC 60079-15. The explosion group depends on the connected and energy-limited supply circuit.

The adhesive label provided must be affixed in the immediate vicinity of the sensor! The surface to which the label is applied must be clean, flat and free from grease! The affixed adhesive label must be readable and durable, taking account of the possibility of chemical corrosion!

No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.

55 °C (131 °F)
55 °C (131 °F)
52 °C (125.6 °F)
52 °C (125.6 °F)
52 °C (125.6 °F)
44 °C (111.2 °F)
44 °C (111.2 °F)
44 °C (111.2 °F)

The sensor must not be exposed to **ANY FORM** of mechanical danger. When used in the temperature range below -20 °C the sensor should be protected from knocks by the provision of an additional housing.

The sensor and the connection cable must be protected from damaging UV-radiation. This can be achieved when the sensor is used in internal areas.

Electrostatic charges must be avoided on the mechanical housing components. Dangerous electrostatic charges on the mechanical housing components can be avoided by incorporating these in the equipotential bonding.

The connection cable must be prevented from being subjected to tension and torsional loading.

The connection parts are to be installed, such that a minimum protection class of IP20 is achieved, in accordance with IEC 60529.

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ATEX 3G (ic) Instruction

Device category 3G (ic) Directive conformity Standard conformity

CE marking

Ex-identification

 $\begin{array}{l} \mbox{Effective internal capacitance } C_i \\ \mbox{Effective internal inductance } L_i \end{array} \end{array}$

General

Installation, Comissioning

Maintenance

Specific conditions

Maximum permissible ambient temperature T_{Umax} at Ui = 20 V for Pi=34 mW, Ii=25 mA, T6 for Pi=34 mW, Ii=25 mA, T5 for Pi=34 mW, Ii=25 mA, T4-T1 for Pi=64 mW, Ii=25 mA, T6 for Pi=64 mW, Ii=25 mA, T5 for Pi=64 mW, Ii=25 mA, T4-T1 for Pi=169 mW, Ii=52 mA, T6 for Pi=169 mW, Ii=52 mA, T4-T1 for Pi=169 mW, Ii=52 mA, T4-T1 for Pi=242 mW, Ii=76 mA, T6 for Pi=242 mW, Ii=76 mA, T5

for Pi=242 mW, li=76 mA, T4-T1 Protection from mechanical danger

Electrostatic charging

Connection parts

Manual electrical apparatus for hazardous areas

for use in hazardous areas with gas, vapour and mist 94/9/EG

EN 60079-0:2009, EN 60079-11:2007 Ignition protection category "ic" Use is restricted to the following stated conditions

(II 3G Ex ic IIC T6 Gc X The Ex-significant identification is on the enclosed adhesive label

 \leq 95 nF ; a cable length of 10 m is considered. \leq 100 μ H ; A cable length of 10 m is considered.

 \leq 100 µm, A cable length of 10 m is considered.

The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The data stated in the data sheet are restricted by this operating instruction! The special conditions must be observed!

Laws and/or regulations and standards governing the use or intended usage goal must be observed.

The sensor must only be operated with energy-limited circuits, which satisfy the requirements of IEC 60079-11.

The explosion group complies with the connected, supplying, power limiting circuit. The adhesive label provided must be affixed in the immediate vicinity of the sensor! The surface to which the label is applied must be clean, flat and free from grease! The affixed adhesive label must be readable and durable, taking account of the possibility of chemical corrosion!

No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.

55 °C (131 °F)
55 °C (131 °F)
52 °C (125.6 °F)
52 °C (125.6 °F)
52 °C (125.6 °F)
44 °C (111.2 °F)
44 °C (111.2 °F)
44 °C (111.2 °F)
The sensor must

The sensor must not be mechanically damaged. When used in the temperature range below -20 $^\circ$ C the sensor should be protected from knocks by the provision of an additional housing.

Electrostatic charges must be avoided on the mechanical housing components. Dangerous electrostatic charges on the mechanical housing components can be avoided by incorporating these in the equipotential bonding.

The connection parts are to be installed, such that a minimum protection class of IP20 is achieved, in accordance with IEC 60529.

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