

EVERY
THING
ULTRA
SONIC

Extract from our online catalogue:

nero ultrasonic sensors

Current to: 2023-07-11



Ultrasonic proximity switch nero in M18 plastic sleeve with 4 detection ranges

HIGHLIGHTS

- › Variant with 90° angled head
- › UL Listed to Canadian and US safety standards

BASICS

- › 1 switching output, pnp or npn basis
- › Analogue output 4–20 mA or 0–10 V
- › 4 detection ranges with a measurement range of 20 mm to 1.3 m
- › microsonic Teach-in on pin 2
- › 0.2 mm resolution
- › 10–30 V operating voltage

Description

nero ultrasonic proximity switches

are available in a M18 plastic sleeve. In addition to the axial beam direction variant, there is also a housing variant with a 90° angled head and radial beam direction.

The ultrasonic proximity switches detect contactless and reliable objects with four detection ranges from 20 mm to 1.3 m.

For the nero sensor family

there are 2 output stages and 4 detection ranges available:



1 switching output with pnp or npn switching technology



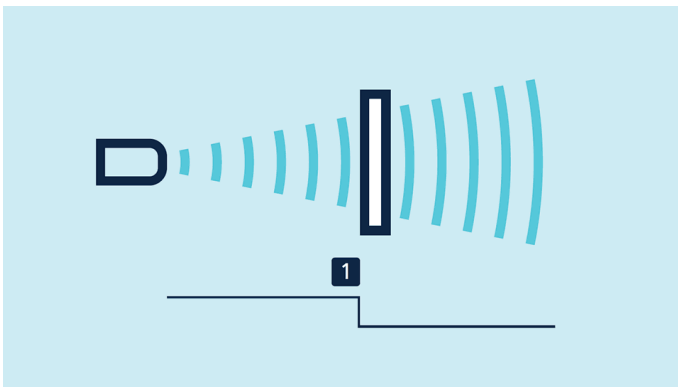
1 analogue output 4–20 mA or 0–10 V

Sensors with switching output have three operating modes:

- › Single switching point
- › Two-way reflective barrier
- › Window mode

Teach-in of a single switching point

- › Place object to be detected (1) at the desired distance
- › Apply +U_B to pin 2 for about 3 seconds
- › Then apply +U_B to pin 2 again for about 1 second

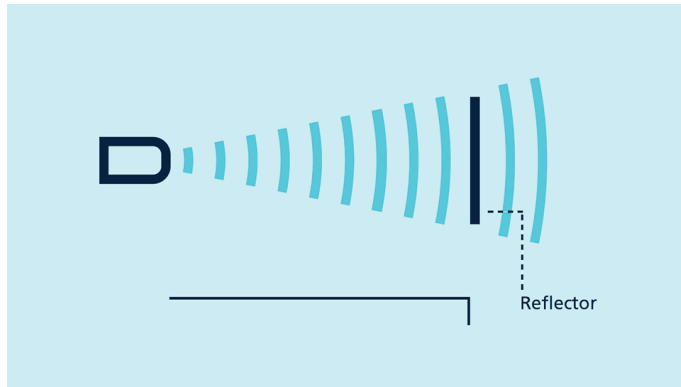


Teach-in of a switching point

Teach-in of a two-way reflective barrier

with a fixed reflector

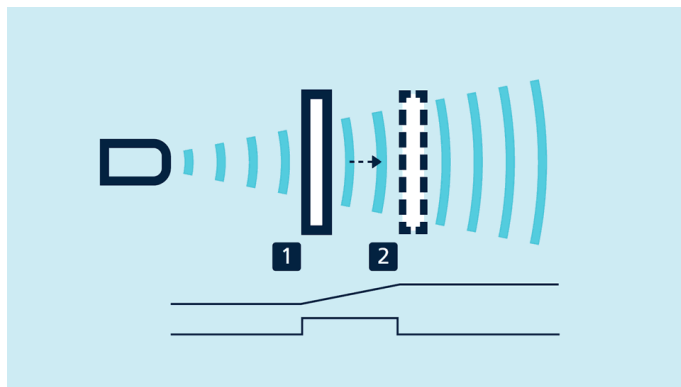
- › Apply $+U_B$ to pin 2 for about 3 seconds
- › Then apply $+U_B$ to pin 2 again for about 10 seconds



Teach-in of a two-way reflective barrier

For configuration of a window

- › Place object at the near edge of the window (1)
- › Apply $+U_B$ to pin 2 for about 3 seconds
- › Then move the object to the far edge of the window (2)
- › Then apply $+U_B$ to pin 2 again for about 1 second



Teach-in of an analogue characteristic or a window with two switching points

NCC/NOG

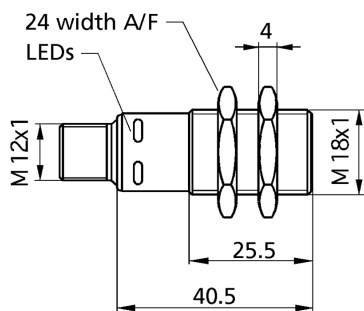
and rising/falling analogue characteristic curve can also be set via pin 2.

One green and one yellow LED

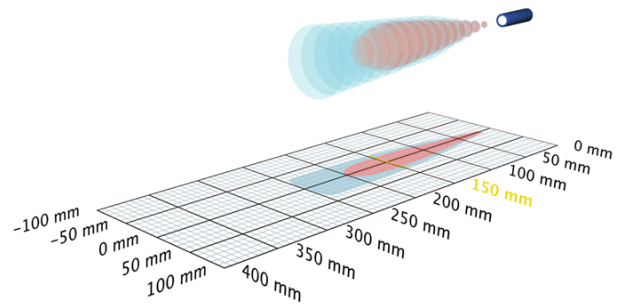
indicate the state of the output and support microsonic Teach-in.

nero-15/CD

scale drawing



detection zone



1 x pnp



250 mm

| | |
|-----------------|---|
| measuring range | 25 - 250 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 380 kHz |
| blind zone | 25 mm |
| operating range | 150 mm |
| maximum range | 250 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_b | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-15/CD

outputs

| | |
|-----------------------------|--|
| output 1 | switching output pnp: $I_{\max} = 200 \text{ mA}$ ($U_B = 2\text{V}$) |
| switching hysteresis | 2.0 mm |
| switching frequency | 25 Hz |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

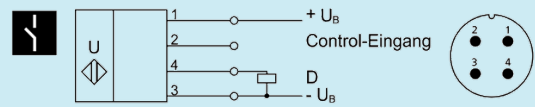
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-15/WK/CD |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | UL Listed |

nero-15/CD

pin assignment



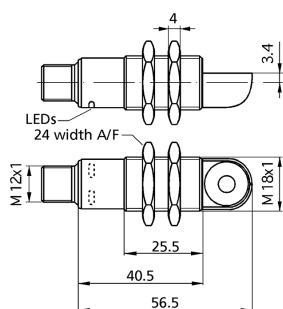
order no.

nero-15/CD

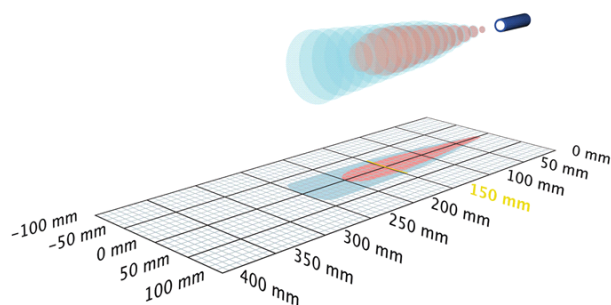
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nero-15/WK/CD

scale drawing



detection zone



1 x pnp



250 mm

| | |
|-----------------|---|
| measuring range | 25 - 250 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 380 kHz |
| blind zone | 25 mm |
| operating range | 150 mm |
| maximum range | 250 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_B | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-15/WK/CD

outputs

| | |
|-----------------------------|---|
| output 1 | switching output pnp: $I_{\max} = 200 \text{ mA}$ ($U_B = 2V$) |
| switching hysteresis | 2.0 mm |
| switching frequency | 25 Hz |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

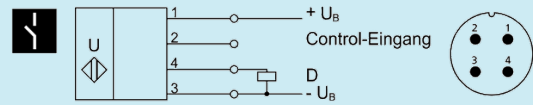
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | 90° angular head UL Listed |

nero-15/WK/CD

pin assignment



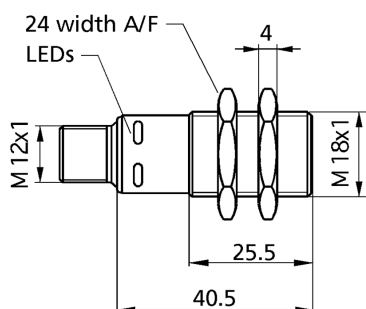
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nero-15/WK/CD

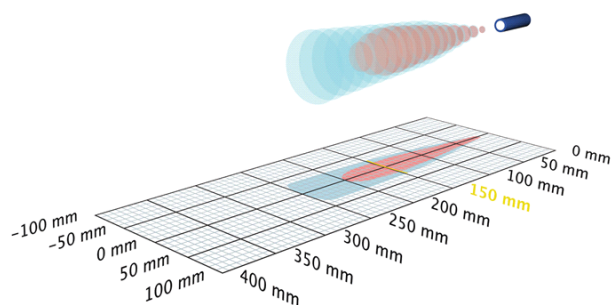
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nero-15/CE

scale drawing



detection zone



1 x npn



250 mm

| | |
|-----------------|---|
| measuring range | 25 - 250 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 380 kHz |
| blind zone | 25 mm |
| operating range | 150 mm |
| maximum range | 250 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_b | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-15/CE

outputs

| | |
|-----------------------------|---|
| output 1 | Schaltausgang npn: $I_{\max} = 200 \text{ mA}$ ($-U_B+2V$) |
| switching hysteresis | 2.0 mm |
| switching frequency | 25 Hz |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

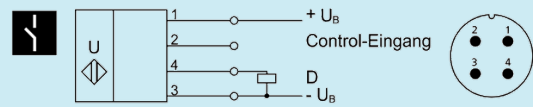
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-15/WK/CE |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | UL Listed |

nero-15/CE

pin assignment



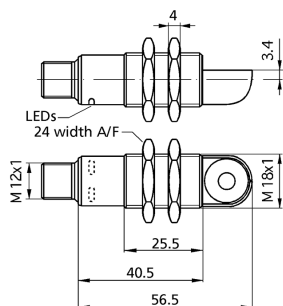
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nero-15/CE

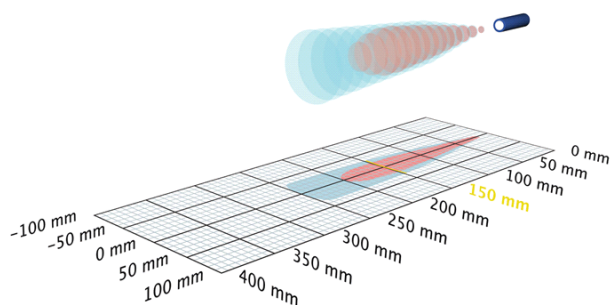
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nero-15/WK/CE

scale drawing



detection zone



1 x npn



250 mm

| | |
|-----------------|---|
| measuring range | 25 - 250 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 380 kHz |
| blind zone | 25 mm |
| operating range | 150 mm |
| maximum range | 250 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_B | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-15/WK/CE

outputs

| | |
|-----------------------------|---|
| output 1 | Schaltausgang npn: $I_{\max} = 200 \text{ mA}$ ($-U_B+2V$) |
| switching hysteresis | 2.0 mm |
| switching frequency | 25 Hz |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

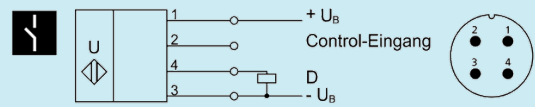
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | 90° angular head UL Listed |

nero-15/WK/CE

pin assignment



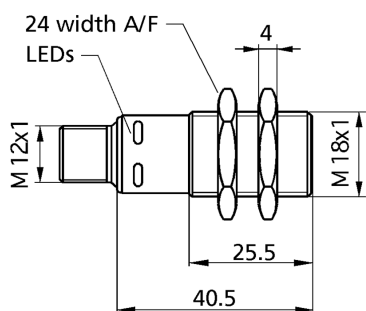
order no.

nero-15/WK/CE

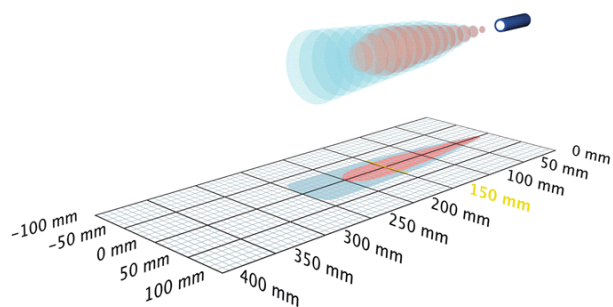
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nero-15/CI

scale drawing



detection zone



1 x analogue 4-20 mA



250 mm

| | |
|-----------------|--------------------------------|
| measuring range | 20 - 250 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 380 kHz |
| blind zone | 20 mm |
| operating range | 150 mm |
| maximum range | 250 mm |
| resolution | 0.056 mm to 0.297 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_b | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-15/CI

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output current: 4-20 mA switchable rising/falling |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

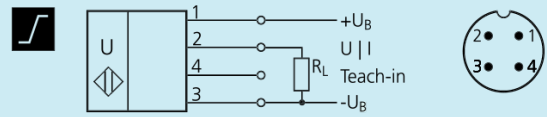
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-15/AWK/CI |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | UL Listed |

nero-15/CI

pin assignment



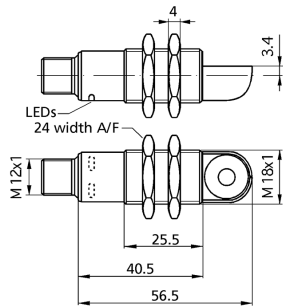
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nero-15/CI

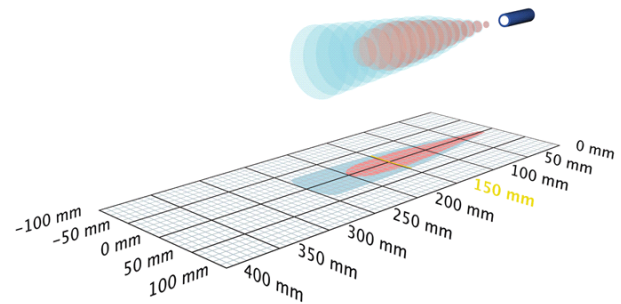
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nero-15/WK/CI

scale drawing



detection zone



1 x analogue 4-20 mA



250 mm

| | |
|-----------------|--------------------------------|
| measuring range | 20 - 250 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 380 kHz |
| blind zone | 20 mm |
| operating range | 150 mm |
| maximum range | 250 mm |
| resolution | 0.056 mm to 0.297 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_b | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-15/WK/CI

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output current: 4-20 mA switchable rising/falling |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

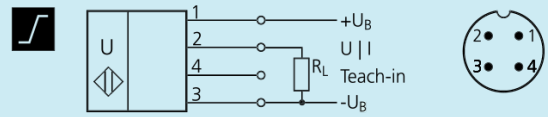
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | 90° angular head UL Listed |

nero-15/WK/CI

pin assignment



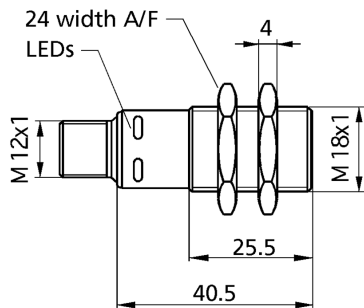
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nero-15/WK/CI

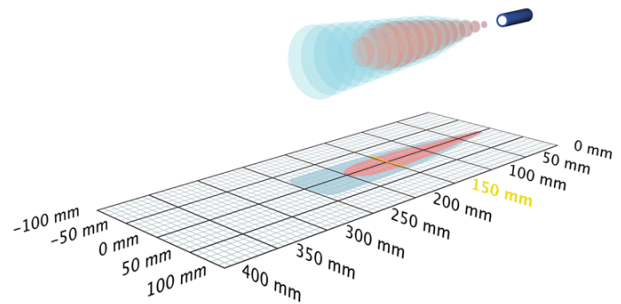
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nero-15/CU

scale drawing



detection zone



1 x analogue 0-10 V



250 mm

| | |
|-----------------|--------------------------------|
| measuring range | 20 - 250 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 380 kHz |
| blind zone | 20 mm |
| operating range | 150 mm |
| maximum range | 250 mm |
| resolution | 0.056 mm to 0.297 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|------------------------------|
| operating voltage U_b | 15 V bis 30 V DC, verpolfest |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-15/CU

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output voltage: 0-10 V, short-circuit-proof switchable rising/falling |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

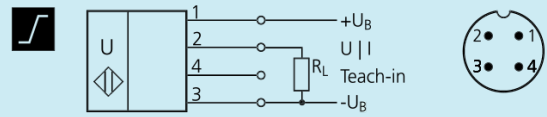
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-15/AWK/CU |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | UL Listed |

nero-15/CU

pin assignment



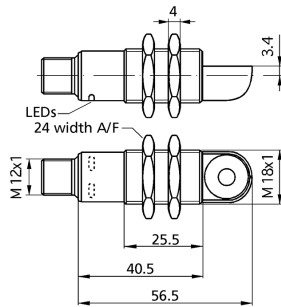
order no.

nero-15/CU

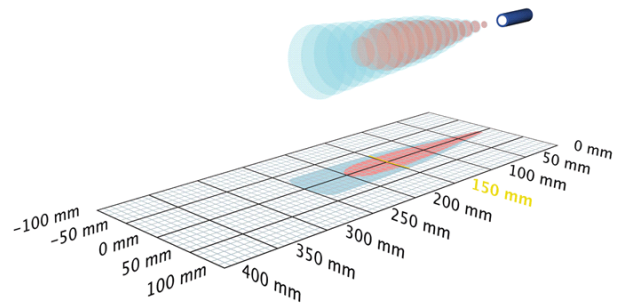
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nero-15/WK/CU

scale drawing



detection zone



1 x analogue 0-10 V

 250 mm

| | |
|-----------------|--------------------------------|
| measuring range | 20 - 250 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 380 kHz |
| blind zone | 20 mm |
| operating range | 150 mm |
| maximum range | 250 mm |
| resolution | 0.056 mm to 0.297 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|------------------------------|
| operating voltage U_b | 15 V bis 30 V DC, verpolfest |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-15/WK/CU

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output voltage: 0-10 V, short-circuit-proof switchable rising/falling |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

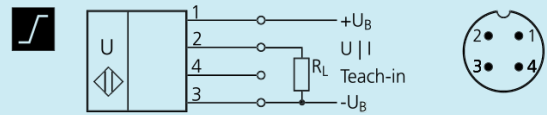
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | 90° angular head UL Listed |

nero-15/WK/CU

pin assignment



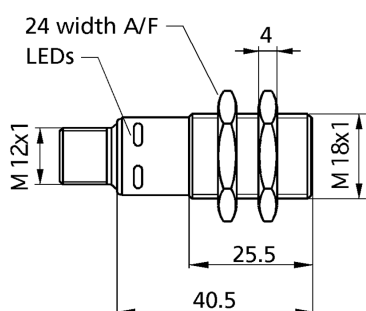
order no.

nero-15/WK/CU

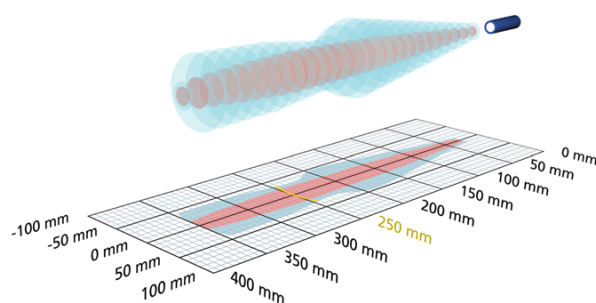
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only. They do not warrant any product features.

nero-25/CD

scale drawing



detection zone



1 x pnp



350 mm

| | |
|-----------------|---|
| measuring range | 30 - 350 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 320 kHz |
| blind zone | 30 mm |
| operating range | 250 mm |
| maximum range | 350 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_b | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-25/CD

outputs

| | |
|-----------------------------|--|
| output 1 | switching output pnp: $I_{\max} = 200 \text{ mA}$ ($U_B = 2\text{V}$) |
| switching hysteresis | 3 mm |
| switching frequency | 25 Hz |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

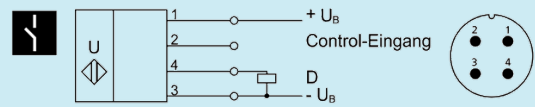
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-25/WK/CD |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | UL Listed |

nero-25/CD

pin assignment



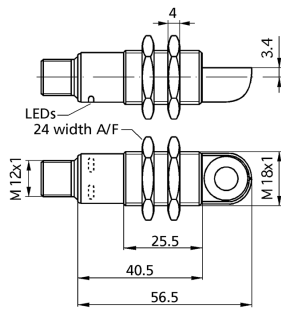
order no.

nero-25/CD

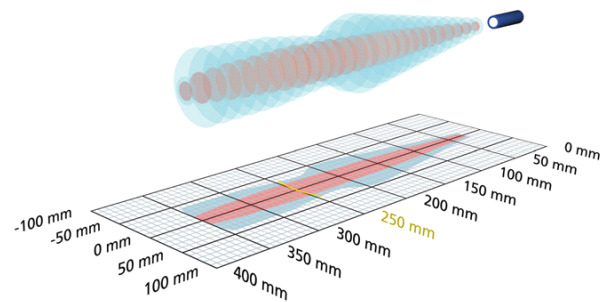
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nero-25/WK/CD

scale drawing



detection zone



1 x pnp



| | |
|-----------------|---|
| measuring range | 30 - 350 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 320 kHz |
| blind zone | 30 mm |
| operating range | 250 mm |
| maximum range | 350 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_B | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-25/WK/CD

outputs

| | |
|-----------------------------|---|
| output 1 | switching output pnp: $I_{\max} = 200 \text{ mA}$ ($U_B = 2V$) |
| switching hysteresis | 3 mm |
| switching frequency | 25 Hz |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

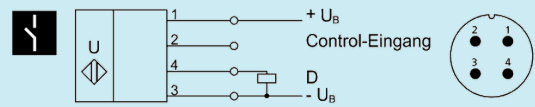
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | 90° angular head UL Listed |

nero-25/WK/CD

pin assignment



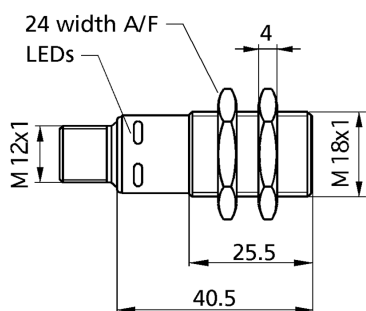
order no.

nero-25/WK/CD

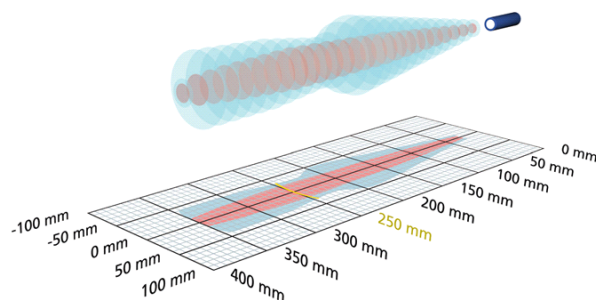
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nero-25/CE

scale drawing



detection zone



1 x npn



350 mm

| | |
|-----------------|---|
| measuring range | 30 - 350 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 320 kHz |
| blind zone | 30 mm |
| operating range | 250 mm |
| maximum range | 350 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_b | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-25/CE

outputs

| | |
|-----------------------------|---|
| output 1 | Schaltausgang npn: $I_{\max} = 200 \text{ mA}$ ($-U_B+2V$) |
| switching hysteresis | 3 mm |
| switching frequency | 25 Hz |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

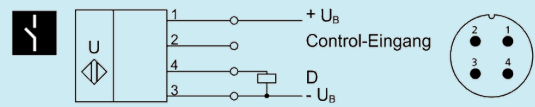
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-25/WK/CE |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | UL Listed |

nero-25/CE

pin assignment



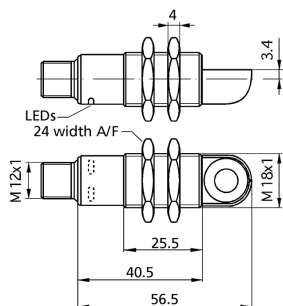
order no.

nero-25/CE

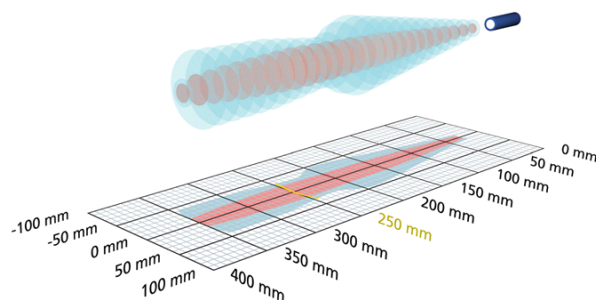
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nero-25/WK/CE

scale drawing



detection zone



1 x npn



350 mm

| | |
|-----------------|---|
| measuring range | 30 - 350 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 320 kHz |
| blind zone | 30 mm |
| operating range | 250 mm |
| maximum range | 350 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_B | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-25/WK/CE

outputs

| | |
|-----------------------------|---|
| output 1 | Schaltausgang npn: $I_{\max} = 200 \text{ mA}$ ($-U_B+2V$) |
| switching hysteresis | 3 mm |
| switching frequency | 25 Hz |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

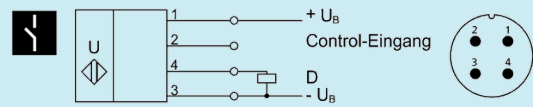
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | 90° angular head UL Listed |

nero-25/WK/CE

pin assignment



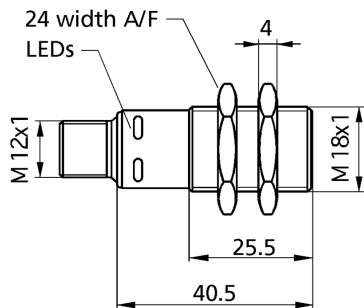
order no.

nero-25/WK/CE

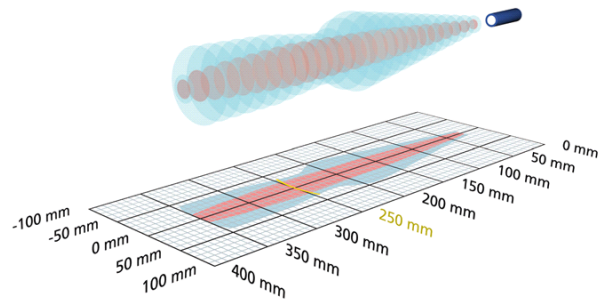
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nero-25/CI

scale drawing



detection zone



1 x analogue 4-20 mA



| | |
|-----------------|--------------------------------|
| measuring range | 30 - 350 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 320 kHz |
| blind zone | 30 mm |
| operating range | 250 mm |
| maximum range | 350 mm |
| resolution | 0.056 mm to 0.413 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_B | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-25/CI

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output current: 4-20 mA switchable rising/falling |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

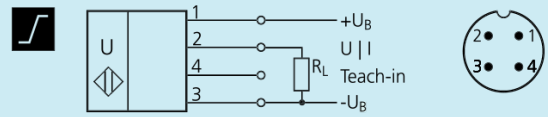
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-25/AWK/CI |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | UL Listed |

nero-25/CI

pin assignment



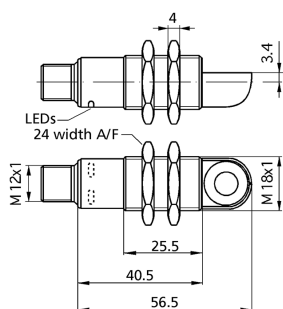
order no.

nero-25/CI

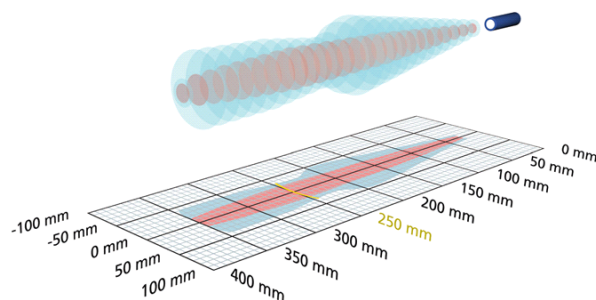
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nero-25/WK/CI

scale drawing



detection zone



1 x analogue 4-20 mA



350 mm

| | |
|-----------------|--------------------------------|
| measuring range | 30 - 350 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 320 kHz |
| blind zone | 30 mm |
| operating range | 250 mm |
| maximum range | 350 mm |
| resolution | 0.056 mm to 0.413 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_b | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-25/WK/CI

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output current: 4-20 mA switchable rising/falling |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

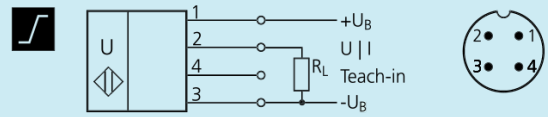
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | 90° angular head UL Listed |

nero-25/WK/CI

pin assignment



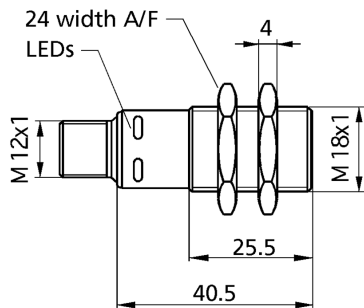
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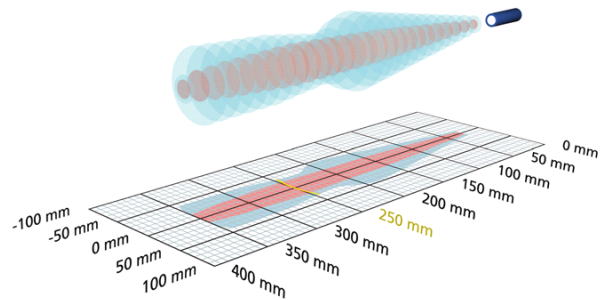
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nero-25/CU

scale drawing



detection zone



1 x analogue 0-10 V



| | |
|-----------------|--------------------------------|
| measuring range | 30 - 350 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 320 kHz |
| blind zone | 30 mm |
| operating range | 250 mm |
| maximum range | 350 mm |
| resolution | 0.056 mm to 0.413 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|------------------------------|
| operating voltage U_b | 15 V bis 30 V DC, verpolfest |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-25/CU

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output voltage: 0-10 V, short-circuit-proof switchable rising/falling |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

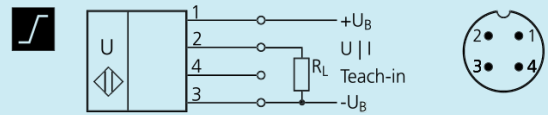
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-25/AWK/CU |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | UL Listed |

nero-25/CU

pin assignment



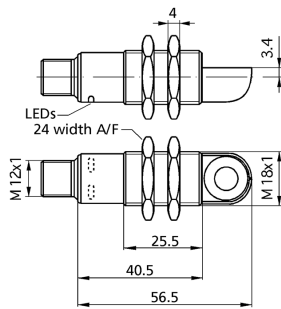
order no.

nero-25/CU

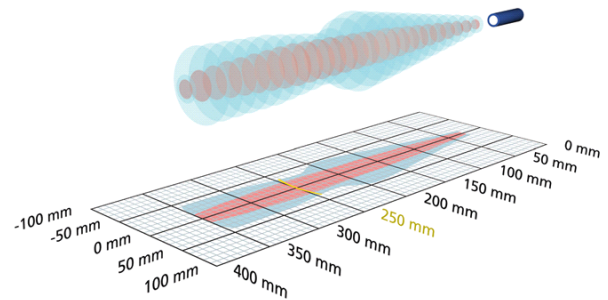
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nero-25/WK/CU

scale drawing



detection zone



1 x analogue 0-10 V



| | |
|-----------------|--------------------------------|
| measuring range | 30 - 350 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 320 kHz |
| blind zone | 30 mm |
| operating range | 250 mm |
| maximum range | 350 mm |
| resolution | 0.056 mm to 0.413 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|------------------------------|
| operating voltage U_b | 15 V bis 30 V DC, verpolfest |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-25/WK/CU

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output voltage: 0-10 V, short-circuit-proof switchable rising/falling |
| response time | 32 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

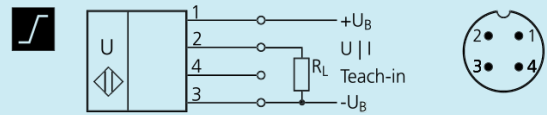
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | 90° angular head UL Listed |

nero-25/WK/CU

pin assignment



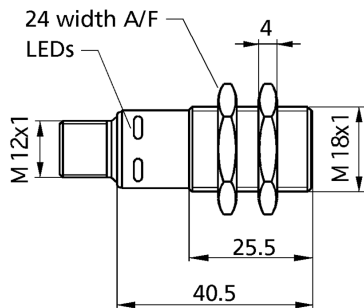
order no.

nero-25/WK/CU

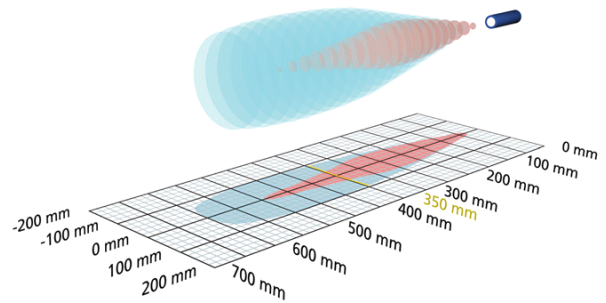
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nero-35/CD

scale drawing



detection zone



1 x pnp



600 mm

| | |
|-----------------|---|
| measuring range | 65 - 600 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 400 kHz |
| blind zone | 65 mm |
| operating range | 350 mm |
| maximum range | 600 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_b | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-35/CD

outputs

| | |
|-----------------------------|--|
| output 1 | switching output pnp: $I_{\max} = 200 \text{ mA}$ ($U_B = 2\text{V}$) |
| switching hysteresis | 5 mm |
| switching frequency | 12 Hz |
| response time | 64 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

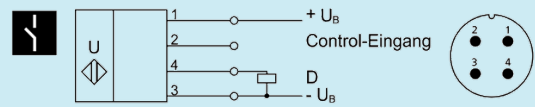
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-35/WK/CD |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | UL Listed |

nero-35/CD

pin assignment



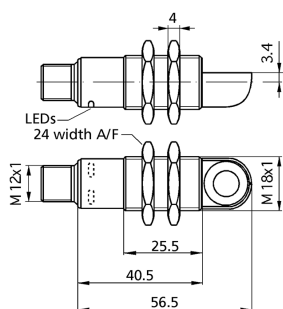
order no.

nero-35/CD

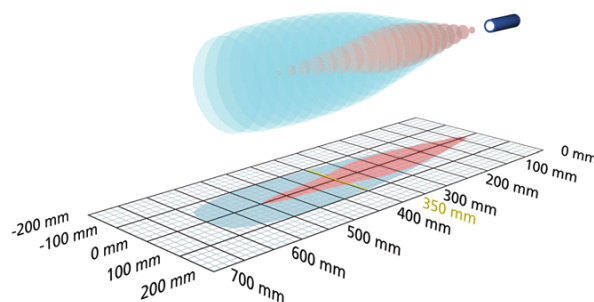
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nero-35/WK/CD

scale drawing



detection zone



1 x pnp



600 mm

| | |
|-----------------|---|
| measuring range | 65 - 600 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 400 kHz |
| blind zone | 65 mm |
| operating range | 350 mm |
| maximum range | 600 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_B | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-35/WK/CD

outputs

| | |
|-----------------------------|---|
| output 1 | switching output pnp: $I_{\max} = 200 \text{ mA}$ ($U_B = 2V$) |
| switching hysteresis | 5 mm |
| switching frequency | 12 Hz |
| response time | 64 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

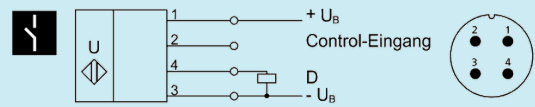
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | 90° angular head UL Listed |

nero-35/WK/CD

pin assignment



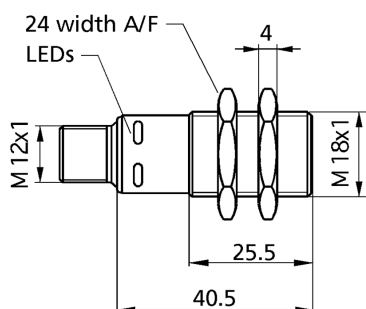
order no.

nero-35/WK/CD

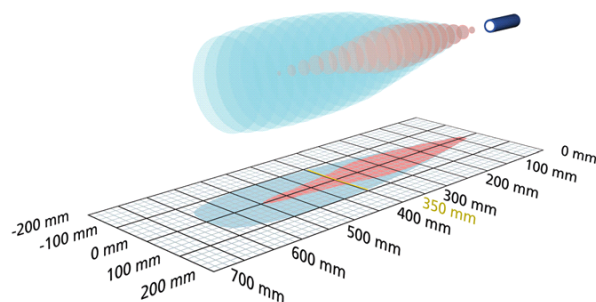
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nero-35/CE

scale drawing



detection zone



1 x npn



600 mm

| | |
|-----------------|---|
| measuring range | 65 - 600 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 400 kHz |
| blind zone | 65 mm |
| operating range | 350 mm |
| maximum range | 600 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_b | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-35/CE

outputs

| | |
|-----------------------------|---|
| output 1 | Schaltausgang npn: $I_{\max} = 200 \text{ mA}$ ($-U_B+2V$) |
| switching hysteresis | 5 mm |
| switching frequency | 12 Hz |
| response time | 64 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

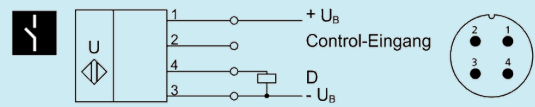
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-100/WK/CE |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | UL Listed |

nero-35/CE

pin assignment



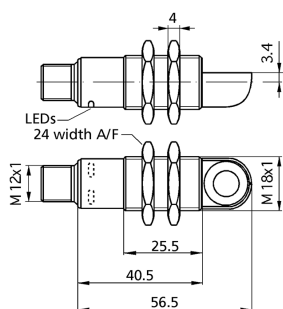
order no.

nero-35/CE

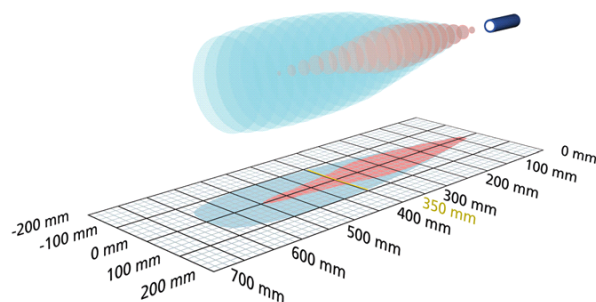
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nero-35/WK/CE

scale drawing



detection zone



1 x npn



600 mm

| | |
|-----------------|---|
| measuring range | 65 - 600 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 400 kHz |
| blind zone | 65 mm |
| operating range | 350 mm |
| maximum range | 600 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_B | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-35/WK/CE

outputs

| | |
|-----------------------------|---|
| output 1 | Schaltausgang npn: $I_{\max} = 200 \text{ mA}$ ($-U_B+2V$) |
| switching hysteresis | 5 mm |
| switching frequency | 12 Hz |
| response time | 64 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

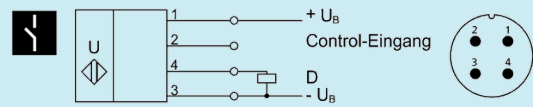
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | 90° angular head UL Listed |

nero-35/WK/CE

pin assignment



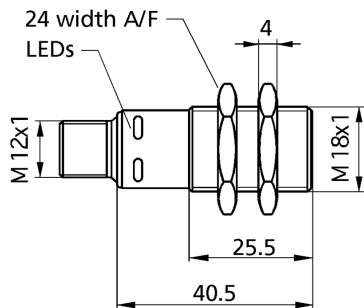
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nero-35/WK/CE

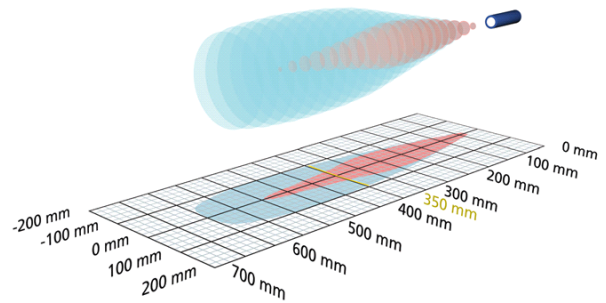
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nero-35/CI

scale drawing



detection zone



1 x analogue 4-20 mA



600 mm

| | |
|-----------------|--------------------------------|
| measuring range | 65 - 600 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 400 kHz |
| blind zone | 65 mm |
| operating range | 350 mm |
| maximum range | 600 mm |
| resolution | 0.056 mm to 0.691 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_b | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-35/CI

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output current: 4-20 mA switchable rising/falling |
| response time | 64 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

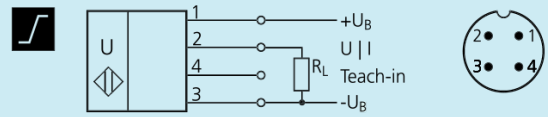
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-35/AWK/CI |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | UL Listed |

nero-35/CI

pin assignment



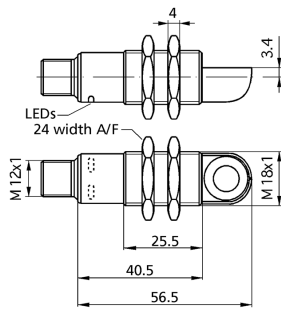
order no.

nero-35/CI

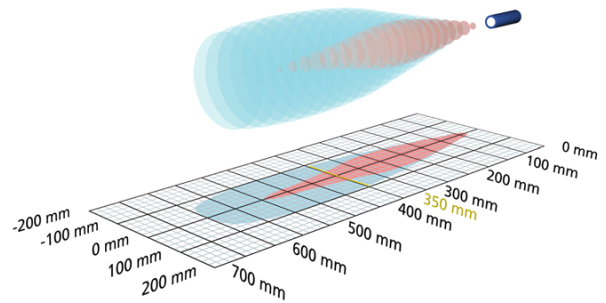
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nero-35/WK/CI

scale drawing



detection zone



1 x analogue 4-20 mA



600 mm

| | |
|-----------------|--------------------------------|
| measuring range | 65 - 600 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 400 kHz |
| blind zone | 65 mm |
| operating range | 350 mm |
| maximum range | 600 mm |
| resolution | 0.056 mm to 0.691 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_b | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-35/WK/CI

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output current: 4-20 mA switchable rising/falling |
| response time | 64 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

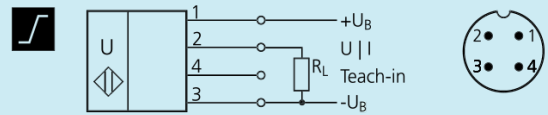
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | 90° angular head UL Listed |

nero-35/WK/CI

pin assignment



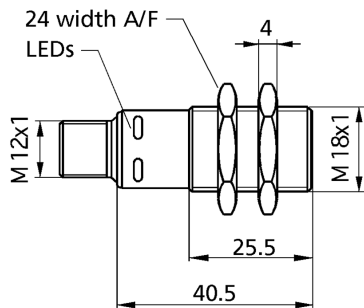
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nero-35/WK/CI

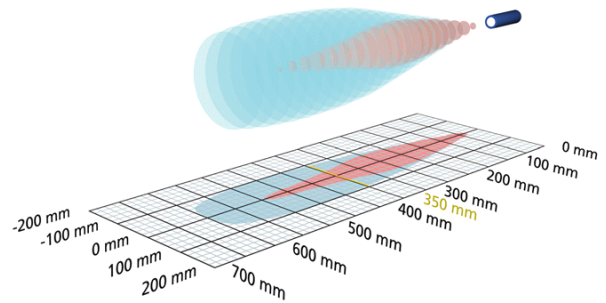
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nero-35/CU

scale drawing



detection zone



1 x analogue 0-10 V



| | |
|-----------------|--------------------------------|
| measuring range | 65 - 600 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 400 kHz |
| blind zone | 65 mm |
| operating range | 350 mm |
| maximum range | 600 mm |
| resolution | 0.056 mm to 0.691 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|------------------------------|
| operating voltage U_b | 15 V bis 30 V DC, verpolfest |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-35/CU

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output voltage: 0-10 V, short-circuit-proof switchable rising/falling |
| response time | 64 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

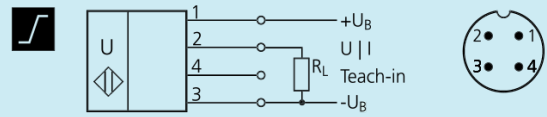
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-35/AWK/CU |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | UL Listed |

nero-35/CU

pin assignment



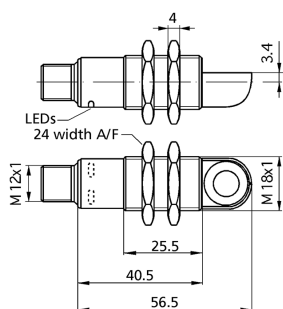
order no.

nero-35/CU

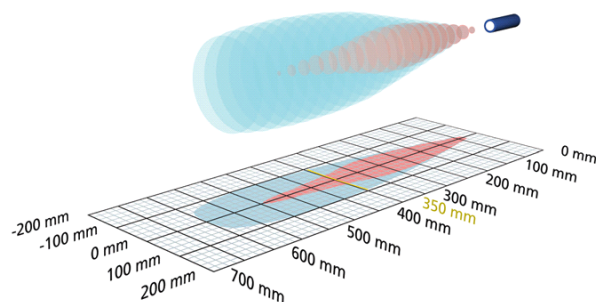
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nero-35/WK/CU

scale drawing



detection zone



1 x analogue 0-10 V



600 mm

| | |
|-----------------|--------------------------------|
| measuring range | 65 - 600 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 400 kHz |
| blind zone | 65 mm |
| operating range | 350 mm |
| maximum range | 600 mm |
| resolution | 0.056 mm to 0.691 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|------------------------------|
| operating voltage U_b | 15 V bis 30 V DC, verpolfest |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-35/WK/CU

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output voltage: 0-10 V, short-circuit-proof switchable rising/falling |
| response time | 64 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

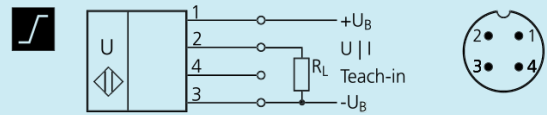
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | 90° angular head UL Listed |

nero-35/WK/CU

pin assignment



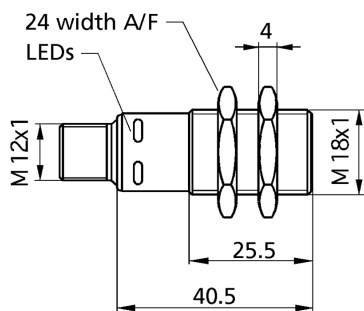
order no.

nero-35/WK/CU

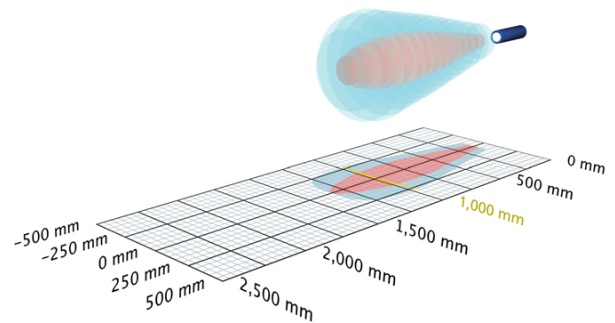
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nero-100/CD

scale drawing



detection zone



1 x pnp



1,300 mm

| | |
|-----------------|---|
| measuring range | 120 - 1.300 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 200 kHz |
| blind zone | 120 mm |
| operating range | 1,000 mm |
| maximum range | 1,300 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_b | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-100/CD

outputs

| | |
|-----------------------------|---|
| output 1 | switching output pnp: $I_{\max} = 200 \text{ mA}$ ($U_B = 2V$) |
| switching hysteresis | 20 mm |
| switching frequency | 10 Hz |
| response time | 80 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

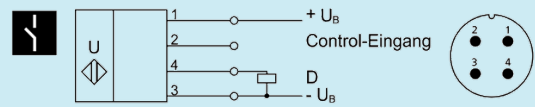
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-100/WK/CD |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | UL Listed |

nero-100/CD

pin assignment



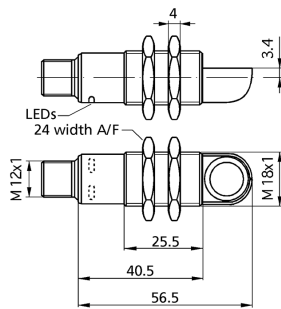
order no.

nero-100/CD

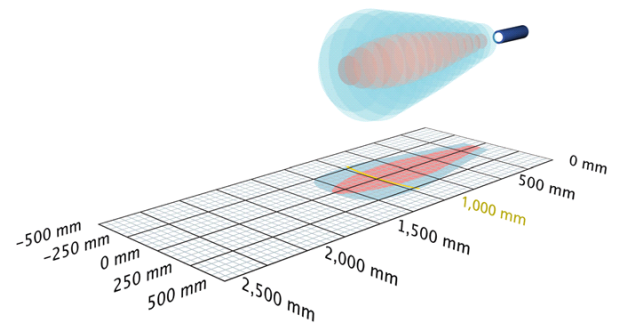
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nero-100/WK/CD

scale drawing



detection zone



1 x pnp

1,300 mm

| | |
|-----------------|---|
| measuring range | 120 - 1.300 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 200 kHz |
| blind zone | 120 mm |
| operating range | 1,000 mm |
| maximum range | 1,300 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_B | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-100/WK/CD

outputs

| | |
|-----------------------------|---|
| output 1 | switching output pnp: $I_{\max} = 200 \text{ mA}$ ($U_B = 2V$) |
| switching hysteresis | 20 mm |
| switching frequency | 10 Hz |
| response time | 80 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

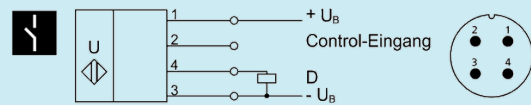
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | 90° angular head UL Listed |

nero-100/WK/CD

pin assignment



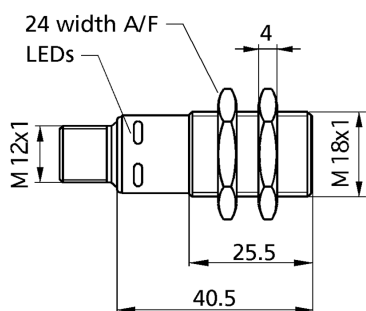
order no.

nero-100/WK/CD

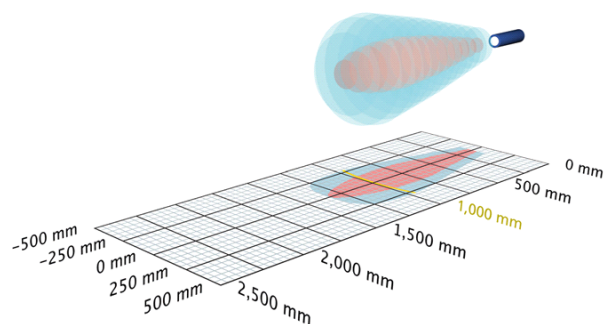
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nero-100/CE

scale drawing



detection zone



1 x npn



1,300 mm

| | |
|-----------------|---|
| measuring range | 120 - 1.300 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 200 kHz |
| blind zone | 120 mm |
| operating range | 1,000 mm |
| maximum range | 1,300 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_b | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-100/CE

outputs

| | |
|-----------------------------|---|
| output 1 | Schaltausgang npn: $I_{\max} = 200 \text{ mA}$ ($-U_B+2V$) |
| switching hysteresis | 20 mm |
| switching frequency | 10 Hz |
| response time | 100 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

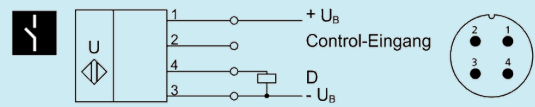
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-100/WK/CE |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | UL Listed |

nero-100/CE

pin assignment



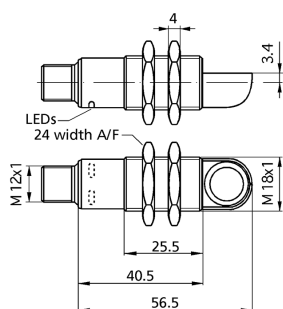
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nero-100/CE

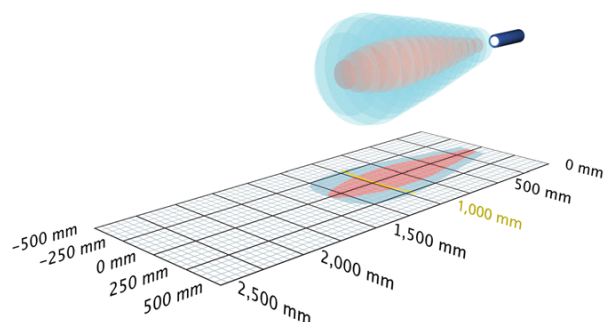
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nero-100/WK/CE

scale drawing



detection zone



1 x npn



1,300 mm

| | |
|-----------------|---|
| measuring range | 120 - 1.300 mm |
| design | cylindrical M18 |
| operating mode | proximity switch/reflective mode reflective barrier window mode |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|-----------------------------------|
| means of measurement | echo propagation time measurement |
| transducer frequency | 200 kHz |
| blind zone | 120 mm |
| operating range | 1,000 mm |
| maximum range | 1,300 mm |
| resolution | 0.20 mm |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_B | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-100/WK/CE

outputs

| | |
|-----------------------------|---|
| output 1 | Schaltausgang npn: $I_{\max} = 200 \text{ mA}$ ($-U_B+2V$) |
| switching hysteresis | 20 mm |
| switching frequency | 10 Hz |
| response time | 100 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

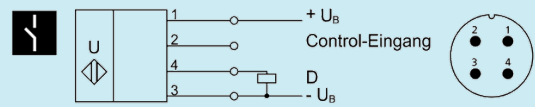
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | 1 x LED green: working, 1 x LED yellow: switch status |
| particularities | 90° angular head UL Listed |

nero-100/WK/CE

pin assignment



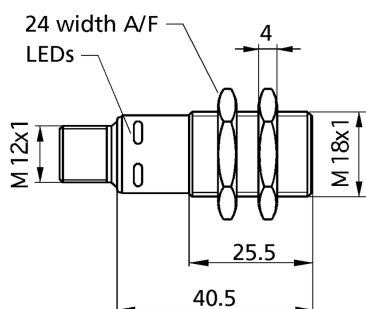
order no.

nero-100/WK/CE

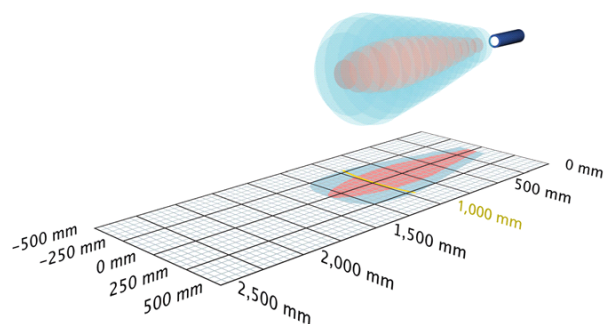
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nero-100/CI

scale drawing



detection zone



1 x analogue 4-20 mA



| | |
|-----------------|--------------------------------|
| measuring range | 120 - 1.300 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 200 kHz |
| blind zone | 120 mm |
| operating range | 1,000 mm |
| maximum range | 1,300 mm |
| resolution | 0.056 mm to 1.525 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_B | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-100/CI

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output current: 4-20 mA switchable rising/falling |
| response time | 80 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

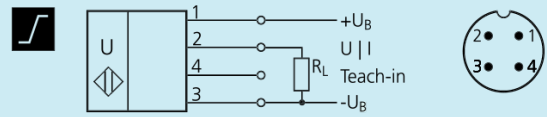
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-100/WK/CI |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | UL Listed |

nero-100/CI

pin assignment



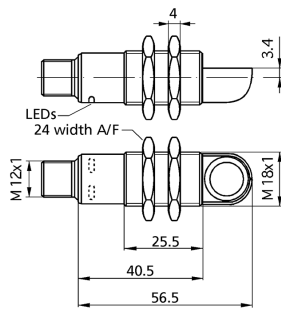
order no.

nero-100/CI

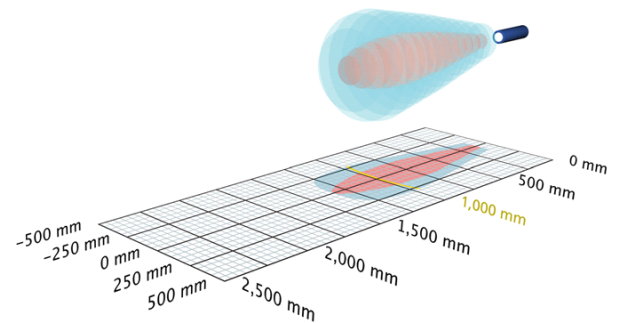
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nero-100/WK/CI

scale drawing



detection zone



1 x analogue 4-20 mA



1,300 mm

| | |
|-----------------|--------------------------------|
| measuring range | 120 - 1.300 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 200 kHz |
| blind zone | 120 mm |
| operating range | 1,000 mm |
| maximum range | 1,300 mm |
| resolution | 0.056 mm to 1.525 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|---|
| operating voltage U_B | 10 - 30 V d.c., reverse polarity protection |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-100/WK/CI

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output current: 4-20 mA switchable rising/falling |
| response time | 80 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

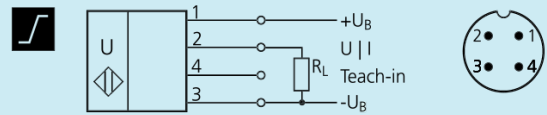
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | 90° angular head UL Listed |

nero-100/WK/CI

pin assignment



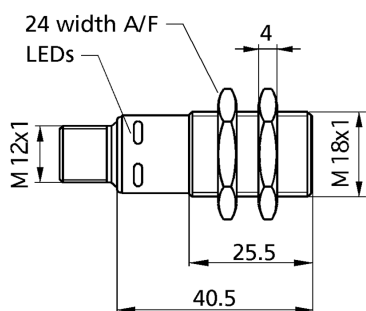
order no.

nero-100/WK/CI

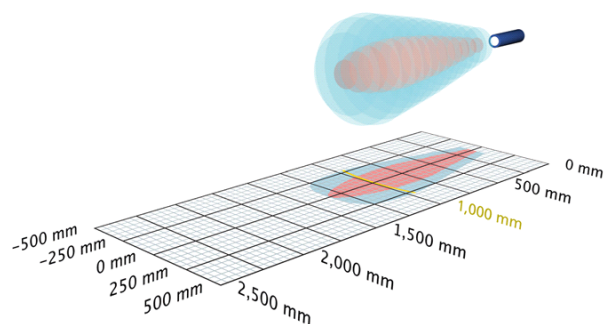
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nero-100/CU

scale drawing



detection zone



1 x analogue 0-10 V



1,300 mm

| | |
|-----------------|--------------------------------|
| measuring range | 120 - 1.300 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 200 kHz |
| blind zone | 120 mm |
| operating range | 1,000 mm |
| maximum range | 1,300 mm |
| resolution | 0.056 mm to 1.525 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|------------------------------|
| operating voltage U_b | 15 V bis 30 V DC, verpolfest |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-100/CU

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output voltage: 0-10 V, short-circuit-proof switchable rising/falling |
| response time | 80 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

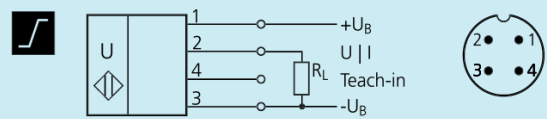
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 15 g |
| further versions | 90° angular head |
| further versions | nero-100/WK/CU |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | UL Listed |

nero-100/CU

pin assignment



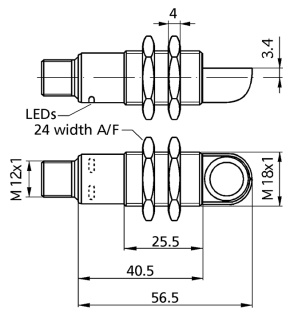
order no.

nero-100/CU

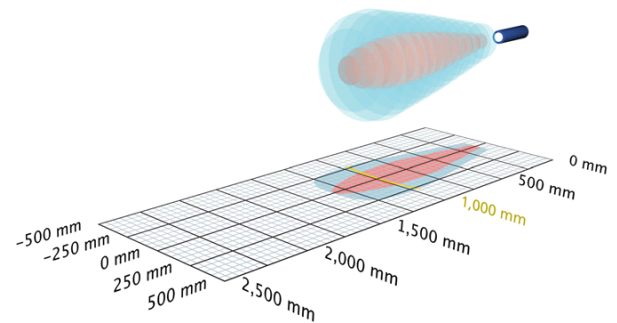
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nero-100/WK/CU

scale drawing



detection zone



1 x analogue 0-10 V

 1,300 mm

| | |
|-----------------|--------------------------------|
| measuring range | 120 - 1.300 mm |
| design | cylindrical M18 |
| operating mode | analogue distance measurements |
| particularities | 90° angular head UL Listed |

ultrasonic-specific

| | |
|----------------------|--|
| means of measurement | echo propagation time measurement |
| transducer frequency | 200 kHz |
| blind zone | 120 mm |
| operating range | 1,000 mm |
| maximum range | 1,300 mm |
| resolution | 0.056 mm to 1.525 mm, depending on the analogue window |
| reproducibility | ± 0.15 % |
| accuracy | temperature drift 0.17 %/K |

electrical data

| | |
|-----------------------------|------------------------------|
| operating voltage U_b | 15 V bis 30 V DC, verpolfest |
| voltage ripple | ± 10 % |
| no-load current consumption | ≤ 40 mA |
| type of connection | 4-pin M12 initiator plug |

nero-100/WK/CU

outputs

| | |
|-----------------------------|--|
| output 1 | analogue output voltage: 0-10 V, short-circuit-proof switchable rising/falling |
| response time | 80 ms |
| delay prior to availability | < 300 ms |

inputs

| | |
|---------|----------------|
| input 1 | Teach-in input |
|---------|----------------|

housing

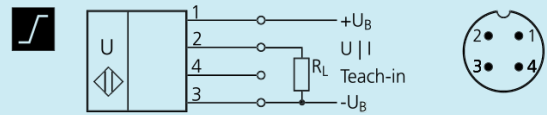
| | |
|---------------------------------|--|
| material | PBT |
| ultrasonic transducer | polyurethane foam, epoxy resin with glass contents |
| max. tightening torque of nuts | 1 Nm |
| class of protection to EN 60529 | IP 67 |
| operating temperature | -25°C to +70°C |
| storage temperature | -40°C to +85°C |
| weight | 20 g |

technical features/characteristics

| | |
|--------------------------|---|
| temperature compensation | no |
| controls | control input |
| scope for settings | Teach-in |
| Synchronisation | no |
| multiplex | no |
| indicators | LED green: working, LED yellow: state of output |
| particularities | 90° angular head UL Listed |

nero-100/WK/CU

pin assignment



order no.

nero-100/WK/CU

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