

## *Resolution of measurements for: MiniTest 7 FH4 Sensor*

### *metric*

(Low range resolution 0,1  $\mu\text{m}$ )

| <b>Measuring Range</b>                    | <b>Resolution</b> |
|---|-------------------|
| <b>Display Format</b>                     |                   |
| 0,0 $\mu\text{m}$ – 59,9 $\mu\text{m}$    | 0,1 $\mu\text{m}$ |
| 60,0 $\mu\text{m}$ – 149,8 $\mu\text{m}$  | 0,2 $\mu\text{m}$ |
| 150,0 $\mu\text{m}$ – 299,5 $\mu\text{m}$ | 0,5 $\mu\text{m}$ |
| 300 $\mu\text{m}$ – 599 $\mu\text{m}$     | 1 $\mu\text{m}$   |
| 600 $\mu\text{m}$ – 998 $\mu\text{m}$     | 2 $\mu\text{m}$   |
| 1,000 mm – 1,498 mm                       | 2 $\mu\text{m}$   |
| 1,500 mm – 2,995 mm                       | 5 $\mu\text{m}$   |
| 3,00 mm – 32,09 mm                        | 10 $\mu\text{m}$  |

maximum display values:

FH4-1,5 mm Steel ball: 1,32 mm;

FH4-1,5 mm Steel ball: 2,02 mm;

FH4-2,5 mm Steel ball: 3,55 mm;

FH4-4,0 mm Steel ball: 6,05 mm

FH4-1,5 mm Magnetic ball: 5,05 mm

FH4-3 mm Magnetic ball: 9,05 mm

### *imperial*

(Low range resolution 0,005 mils)

| <b>Measuring Range</b>   | <b>Resolution</b> |
|--------------------------|-------------------|
| <b>Display Format</b>    |                   |
| 0,000 mils – 2,995 mils  | 0,005 mils        |
| 3,00 mils – 5,99 mils    | 0,01 mils         |
| 6,00 mils – 14,98 mils   | 0,02 mils         |
| 15,00 mils – 29,95 mils  | 0,05 mils         |
| 30,0 mils – 59,9 mils    | 0,1 mils          |
| 60,0 mils – 149,8 mils   | 0,2 mils          |
| 150,0 mils – 1263,0 mils | 0,5 mils          |

maximum display values:

FH4-1,5 mm Steel ball: 51,9 mils;

FH4-1,5 mm Steel ball: 79,5 mils;

FH4-2,5 mm Steel ball: 139,7 mils;

FH4-4,0 mm Steel ball: 238,1 mils

FH4-1,5 mm Magnetic ball: 198,8 mils

FH4-3 mm Magnetic ball: 356,2 mils

## *Resolution of measurements for: FH10 Sensor*

### *metric*

(Low range resolution 0,2  $\mu\text{m}$ )

| <b>Measuring Range</b>                    | <b>Resolution</b> |
|---|-------------------|
| <b>Display Format</b>                     |                   |
| 0,0 $\mu\text{m}$ – 149,8 $\mu\text{m}$   | 0,2 $\mu\text{m}$ |
| 150,0 $\mu\text{m}$ – 299,5 $\mu\text{m}$ | 0,5 $\mu\text{m}$ |
| 300 $\mu\text{m}$ – 599 $\mu\text{m}$     | 1 $\mu\text{m}$   |
| 600 $\mu\text{m}$ – 998 $\mu\text{m}$     | 2 $\mu\text{m}$   |
| 1,000 mm – 1,498 mm                       | 2 $\mu\text{m}$   |
| 1,500 mm – 2,995 mm                       | 5 $\mu\text{m}$   |
| 3,00 mm – 5,99 mm                         | 10 $\mu\text{m}$  |
| 6,00 mm – 49,98mm                         | 20 $\mu\text{m}$  |

maximum display values:

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| FH10-2,5 mm Steel ball: 4,05 mm;  | FH10-4,0 mm Magnetic ball: 16,05 mm |
| FH10-4,0 mm Steel ball: 7,05 mm;  | FH10-6,0 mm Magnetic ball: 24,05 mm |
| FH10-6,0 mm Steel ball: 10,05 mm; |                                     |
| FH10-9,0 mm Steel ball: 13,05 mm  |                                     |

### *imperial*

(Low range resolution 0,01 mils)

| <b>Measuring Range</b>  | <b>Resolution</b> |
|-------------------------|-------------------|
| <b>Display Format</b>   |                   |
| 0,00 mils – 5,99 mils   | 0,01 mils         |
| 6,00 mils – 14,98 mils  | 0,02 mils         |
| 15,00 mils – 29,95 mils | 0,05 mils         |
| 30,0 mils – 59,9 mils   | 0,1 mils          |
| 60,0 mils – 149,8 mils  | 0,2 mils          |
| 150,0 mils – 299,5 mils | 0,5 mils          |
| 300 mils – 1967 mils    | 1 mils            |

maximum display values:

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| FH10-2,5 mm Steel ball: 159,0 mils; | FH10-4,0 mm Magnetic ball: 631 mils |
| FH10-4,0 mm Steel ball: 277,5 mils; | FH10-6,0 mm Magnetic ball: 946 mils |
| FH10-6,0 mm Steel ball: 395 mils;   |                                     |
| FH10-9,0 mm Steel ball: 513 mils    |                                     |

## *Resolution of measurements for MiniTest 7 FH10\_ZF Sensor (custom-built)*

### *metric*

(Low range resolution 20  $\mu\text{m}$ )

| <b>Measuring Range</b> | <b>Resolution</b> |
|------------------------|-------------------|
| <b>Display Format</b>  |                   |
| 0,00 mm – 1,48 mm      | 20 $\mu\text{m}$  |
| 1,50 mm – 2,95 mm      | 50 $\mu\text{m}$  |
| 3,0 mm – 5,9 mm        | 100 $\mu\text{m}$ |
| 6,0 mm – 40,4 mm       | 200 $\mu\text{m}$ |

maximum display values: FH10-14 mm Rohr: 20,2 mm

FH10-12 mm Rohr: 20,2 mm

### *imperial*

(Low range resolution 0,1 mils)

| <b>Measuring Range</b>  | <b>Resolution</b> |
|-------------------------|-------------------|
| <b>Display Format</b>   |                   |
| 0,0 mils – 59,9 mils    | 0,1 mils          |
| 60,0 mils – 149,8 mils  | 0,2 mils          |
| 150,0 mils – 299,5 mils | 0,5 mils          |
| 300 mils – 1594 mils    | 1 mils            |

maximum display values: FH10-14 mm tube: 795 mils

FH10-12 mm tube: 795 mils

## *Resolution of measurements for MiniTest 7 FH10\_G Sensor (Custom-built for conveyor belts)*

### *metric*

(Low range resolution 20 µm)

| <b>Measuring Range</b> | <b>Resolution</b> |
|------------------------|-------------------|
| <b>Display Format</b>  |                   |
| 0,00 mm – 1,48 mm      | 20 µm             |
| 1,50 mm – 2,95 mm      | 50 µm             |
| 3,0 mm – 5,9 mm        | 100 µm            |
| 6,0 mm – 60,4 mm       | 200 µm            |

maximum display values: FH10 65: 25,2 mm  
 FH10 25 (ST2500): 30,2 mm  
 FH10 45 (ST4500): 30,2 mm

### *imperial*

(Low range resolution 0,1 mils)

| <b>Measuring Range</b>  | <b>Resolution</b> |
|-------------------------|-------------------|
| <b>Display Format</b>   |                   |
| 0,0 mils – 59,9 mils    | 0,1 mils          |
| 60,0 mils – 149,8 mils  | 0,2 mils          |
| 150,0 mils – 299,5 mils | 0,5 mils          |
| 300 mils – 2378 mils    | 1 mils            |

maximum display values: FH10 65: 992 mils  
 FH10 25 (ST2500): 1188 mils  
 FH10 45 (ST4500): 1188 mils

## *Resolution of measurements for MiniTest 7 F05 / F0.5M / N02 Sonden*

### *metric*

(Low range resolution 0,02 µm)

| <b>Measuring Range<br/>F-Part</b> | <b>Measuring Range<br/>N-Part</b> | <b>Resolution</b>    |
|-----------------------------------|-----------------------------------|----------------------|
| <b>Display Format</b>             | <b>Display Format</b>             |                      |
| 0,00 µm – 29,98 µm                | 0,00 µm – 29,98 µm                | 0,00,02 µm 14,98 µm  |
| 30,00 µm – 59,95 µm               | 30,00 µm – 59,95 µm               | 15,00,05 µm 29,95 µm |
| 60,0 µm – 149,9 µm                | 60,0 µm – 149,9 µm                | 30,0 µm 59,9 µm      |
| 150,0 µm – 299,8 µm               | 150,0 µm – 299,8 µm               | 60,0 µm 149,8 µm     |
| 300,0 µm – 599,5 µm               | 300,0 µm – 599,5 µm               | 150,0 µm 299,5 µm    |
| 600 µm – 1499 µm                  | 600 µm – 1499 µm                  | 300 µm 610 µm        |

maximum display values:

F-Part: 510 µm

N-Part: 205 µm

### *imperial*

(Low range resolution 0,001 mils)

| <b>Measuring Range<br/>F-Part</b> | <b>Measuring Range<br/>N-Part</b> | <b>Resolution</b>      |
|-----------------------------------|-----------------------------------|------------------------|
| <b>Display Format</b>             | <b>Display Format</b>             |                        |
| 0,000 mils – 1,499 mils           | 0,000 mils – 1,499 mils           | 0,0001 mils 0,599 mils |
| 1,500 mils – 2,998 mils           | 1,500 mils – 2,998 mils           | 0,0002 mils 1,498 mils |
| 3,000 mils – 5,995 mils           | 3,000 mils – 5,995 mils           | 1,5000 mils 2,995 mils |
| 6,00 mils – 14,99 mils            | 6,00 mils – 14,99 mils            | 3,0001 mils 5,99 mils  |
| 15,00 mils – 24,98 mils           | 15,00 mils – 24,98 mils           | 6,0002 mils 24,00 mils |
| 25,00 mils – 59,00 mils           | 25,00 mils – 59,00 mils           | 0,05 mils              |

maximum display values:

F-Part: 20,07 mils

N-Part: 8,07 mils

***Resolution of measurements for MiniTest 7  
FN1.5 / FN1.5-90 / F1.5 / F1.5-90 / N0.7 / N0.7-90  
Sonden***

***metric***

(Low range resolution 0,05  $\mu\text{m}$ )

| <b><i>Measuring Range<br/>F-Part</i></b>  | <b><i>Measuring Range<br/>N-Part</i></b>  | <b><i>Resolution</i></b> |
|---|---|--------------------------|
| <b><i>Display Format</i></b>              | <b><i>Display Format</i></b>              |                          |
| 0,00 $\mu\text{m}$ – 29,95 $\mu\text{m}$  | 0,00 $\mu\text{m}$ – 29,95 $\mu\text{m}$  | 0,05 $\mu\text{m}$       |
| 30,0 $\mu\text{m}$ – 59,9 $\mu\text{m}$   | 30,0 $\mu\text{m}$ – 59,9 $\mu\text{m}$   | 0,1 $\mu\text{m}$        |
| 60,0 $\mu\text{m}$ – 149,8 $\mu\text{m}$  | 60,0 $\mu\text{m}$ – 149,8 $\mu\text{m}$  | 0,2 $\mu\text{m}$        |
| 150,0 $\mu\text{m}$ – 299,5 $\mu\text{m}$ | 150,0 $\mu\text{m}$ – 299,5 $\mu\text{m}$ | 0,5 $\mu\text{m}$        |
| 300 $\mu\text{m}$ – 599 $\mu\text{m}$     | 300 $\mu\text{m}$ – 599 $\mu\text{m}$     | 1 $\mu\text{m}$          |
| 600 $\mu\text{m}$ – 998 $\mu\text{m}$     | 600 $\mu\text{m}$ – 998 $\mu\text{m}$     | 2 $\mu\text{m}$          |
| 1,000 mm – 1,498 mm                       | 1,000 mm – 1,898 mm                       | 2 $\mu\text{m}$          |
| 1,500 mm – 3995 mm                        |   | 5 $\mu\text{m}$          |

maximum display values:

F-Part: 1,520 mm

N-Part: 710  $\mu\text{m}$

***imperial***

(Low range resolution 0,002 mils)

| <b><i>Measuring Range<br/>F-Part</i></b> | <b><i>Measuring Range<br/>N-Part</i></b> | <b><i>Resolution</i></b> |
|--|--|--------------------------|
| <b><i>Display Format</i></b>             | <b><i>Display Format</i></b>             |                          |
| 0,000 mils – 1,498 mils                  | 0,000 mils – 1,498 mils                  | 0,002 mils               |
| 1,500 mils – 2,995 mils                  | 1,500 mils – 2,995 mils                  | 0,005 mils               |
| 3,00 mils – 5,99 mils                    | 3,00 mils – 5,99 mils                    | 0,01 mils                |
| 6,00 mils – 14,98 mils                   | 6,00 mils – 14,98 mils                   | 0,02 mils                |
| 15,00 mils – 99,95 mils                  | 15,00 mils – 74,70 mils                  | 0,05 mils                |
| 100,0 mils – 157,3 mils                  |  | 0,1 mils                 |

maximum display values:

F-Part: 59,84 mils

N-Part: 27,95 mils

## *Resolution of measurements for MiniTest 7 F2.6 VW Sensor (Custom-built)*

### *metric*

(Low range resolution 0,05  $\mu\text{m}$ )

| <b>Measuring Range<br/>F-Part</b>         | <b>Resolution</b>  |
|---|--------------------|
| <b>Display Format</b>                     |                    |
| 0,00 $\mu\text{m}$ – 29,95 $\mu\text{m}$  | 0,05 $\mu\text{m}$ |
| 30,0 $\mu\text{m}$ – 59,9 $\mu\text{m}$   | 0,1 $\mu\text{m}$  |
| 60,0 $\mu\text{m}$ – 149,8 $\mu\text{m}$  | 0,2 $\mu\text{m}$  |
| 150,0 $\mu\text{m}$ – 299,5 $\mu\text{m}$ | 0,5 $\mu\text{m}$  |
| 300 $\mu\text{m}$ – 599 $\mu\text{m}$     | 1 $\mu\text{m}$    |
| 600 $\mu\text{m}$ – 998 $\mu\text{m}$     | 2 $\mu\text{m}$    |
| 1,000 mm – 1,498 mm                       | 2 $\mu\text{m}$    |
| 1,500 mm – 5495 mm                        | 5 $\mu\text{m}$    |

maximum display values:                      F-Part: 2,610 mm

### *imperial*

(Low range resolution 0,002 mils)

| <b>Measuring Range<br/>F-Part</b> | <b>Resolution</b> |
|-----------------------------------|-------------------|
| <b>Display Format</b>             |                   |
| 0,000 mils – 1,498 mils           | 0,002 mils        |
| 1,500 mils – 2,995 mils           | 0,005 mils        |
| 3,00 mils – 5,99 mils             | 0,01 mils         |
| 6,00 mils – 14,98 mils            | 0,02 mils         |
| 15,00 mils – 99,95 mils           | 0,05 mils         |
| 100,0 mils – 216,3 mils           | 0,1 mils          |

maximum display values:                      F-Part: 102,7 mils





## *Resolution of measurements for MiniTest 7 FN5 / F5 / F2 / N2.5 Sensors*

### *metric*

(Low range resolution 0,1  $\mu\text{m}$ )

| <b>Measuring Range<br/>F-Part</b>         | <b>Measuring Range<br/>N-Part</b>         | <b>Resolution</b> |
|---|---|-------------------|
| <b>Display Format</b>                     | <b>Display Format</b>                     |                   |
| 0,0 $\mu\text{m}$ – 59,9 $\mu\text{m}$    | 0,0 $\mu\text{m}$ – 59,9 $\mu\text{m}$    | 0,1 $\mu\text{m}$ |
| 60,0 $\mu\text{m}$ – 149,8 $\mu\text{m}$  | 60,0 $\mu\text{m}$ – 149,8 $\mu\text{m}$  | 0,2 $\mu\text{m}$ |
| 150,0 $\mu\text{m}$ – 299,5 $\mu\text{m}$ | 150,0 $\mu\text{m}$ – 299,5 $\mu\text{m}$ | 0,5 $\mu\text{m}$ |
| 300 $\mu\text{m}$ – 599 $\mu\text{m}$     | 300 $\mu\text{m}$ – 599 $\mu\text{m}$     | 1 $\mu\text{m}$   |
| 600 $\mu\text{m}$ – 998 $\mu\text{m}$     | 600 $\mu\text{m}$ – 998 $\mu\text{m}$     | 2 $\mu\text{m}$   |
| 1,000 mm – 1,498 mm                       | 1,000 mm – 1,498 mm                       | 2 $\mu\text{m}$   |
| 1,500 mm – 2,995 mm                       | 1,500 mm – 5,080 mm                       | 5 $\mu\text{m}$   |
| 3,00 mm – 9,99 mm                         |   | 10 $\mu\text{m}$  |
| 10,00 mm – 12,99 mm                       |   | 10 $\mu\text{m}$  |

maximum display values:

F-Part: 5,08 mm

N-Part: 2,540 mm

### *imperial*

(Low range resolution 0,005 mils)

| <b>Measuring Range<br/>F-Part</b> | <b>Measuring Range<br/>N-Part</b> | <b>Resolution</b> |
|-----------------------------------|-----------------------------------|-------------------|
| <b>Display Format</b>             | <b>Display Format</b>             |                   |
| 0,000 mils – 2,995 mils           | 0,000 mils – 2,995 mils           | 0,005 mils        |
| 3,00 mils – 5,99 mils             | 3,00 mils – 5,99 mils             | 0,01 mils         |
| 6,00 mils – 14,98 mils            | 6,00 mils – 14,98 mils            | 0,02 mils         |
| 15,00 mils – 29,95 mils           | 15,00 mils – 29,95 mils           | 0,05 mils         |
| 30,0 mils – 59,9 mils             | 30,0 mils – 59,9 mils             | 0,1 mils          |
| 60,0 mils – 149,8 mils            | 60,0 mils – 200,0 mils            | 0,2 mils          |
| 150,0 mils – 511,0 mils           |                                   | 0,5 mils          |

maximum display values:

F-Part: 200 mils

N-Part: 100 mils

## *Resolution of measurements for MiniTest 7 F15 / N7 Sensors*

### *metric*

(Low range resolution 1,0  $\mu\text{m}$ )

| <b>Measuring Range<br/>F-Part</b>     | <b>Measuring Range<br/>N-Part</b>     | <b>Resolution</b> |
|---------------------------------------|---------------------------------------|-------------------|
| <b>Display Format</b>                 | <b>Display Format</b>                 |                   |
| 0 $\mu\text{m}$ – 599 $\mu\text{m}$   | 0 $\mu\text{m}$ – 599 $\mu\text{m}$   | 1 $\mu\text{m}$   |
| 600 $\mu\text{m}$ – 998 $\mu\text{m}$ | 600 $\mu\text{m}$ – 998 $\mu\text{m}$ | 2 $\mu\text{m}$   |
| 1,000 mm – 1,498 mm                   | 1,000 mm – 1,498 mm                   | 2 $\mu\text{m}$   |
| 1,500 mm – 2,995 mm                   | 1,500 mm – 2,995 mm                   | 5 $\mu\text{m}$   |
| 3,00 mm – 5,99 mm                     | 3,00 mm – 5,99 mm                     | 10 $\mu\text{m}$  |
| 6,00 mm – 14,98 mm                    | 6,00 mm – 14,98 mm                    | 20 $\mu\text{m}$  |
| 15,00 mm – 34,95 mm                   |                                       | 50 $\mu\text{m}$  |

maximum display values:

F-Part: 15,18 mm

N-Part: 7,10 mm

### *imperial*

(Low range resolution 0,02 mils)

| <b>Measuring Range<br/>F-Part</b> | <b>Measuring Range<br/>N-Part</b> | <b>Resolution</b> |
|-----------------------------------|-----------------------------------|-------------------|
| <b>Display Format</b>             | <b>Display Format</b>             |                   |
| 0,00 mils – 14,98 mils            | 0,00 mils – 14,98 mils            | 0,02 mils         |
| 15,00 mils – 29,95 mils           | 15,00 mils – 29,95 mils           | 0,05 mils         |
| 30,0 mils – 59,9 mils             | 30,0 mils – 59,9 mils             | 0,1 mils          |
| 60,0 mils – 149,8 mils            | 60,0 mils – 149,8 mils            | 0,2 mils          |
| 150,0 mils – 299,5 mils           | 150,0 mils – 299,5 mils           | 0,5 mils          |
| 300 mils – 599 mils               | 300 mils – 599 mils               | 1 mils            |
| 600 mils – 1376 mils              |                                   | 2 mils            |

maximum display values:

F-Part: 597 mils

N-Part: 279,5 mils

## *Resolution of measurements for MiniTest 7 F35 / N20 Sonden*

### *metric*

(Low range resolution F: 5,0  $\mu\text{m}$  und N: 1  $\mu\text{m}$ )

| <b>Measuring Range<br/>F-Part</b> | <b>Measuring Range<br/>N-Part</b>     | <b>Resolution</b> |
|-----------------------------------|---------------------------------------|-------------------|
| <b>Display Format</b>             | <b>Display Format</b>                 |                   |
|                                   | 0 $\mu\text{m}$ – 599 $\mu\text{m}$   | 1 $\mu\text{m}$   |
|                                   | 600 $\mu\text{m}$ – 998 $\mu\text{m}$ | 2 $\mu\text{m}$   |
|                                   | 1,000 mm – 1,498 mm                   | 2 $\mu\text{m}$   |
| 0,000 mm – 2,995 mm               | 1,500 mm – 2,995 mm                   | 5 $\mu\text{m}$   |
| 3,00 mm – 5,99 mm                 | 3,00 mm – 5,99 mm                     | 10 $\mu\text{m}$  |
| 6,00 mm – 14,98 mm                | 6,00 mm – 14,98 mm                    | 20 $\mu\text{m}$  |
| 15,00 mm – 29,95 mm               | 15,00 mm – 40,40 mm                   | 50 $\mu\text{m}$  |
| 30,0 mm – 74,9 mm                 |                                       | 100 $\mu\text{m}$ |

maximum display values:

F-Part: 35,4 mm

N-Part: 20,20 mm

### *imperial*

(Low range resolution 0,02 mils)

| <b>Measuring Range<br/>F-Part</b> | <b>Measuring Range<br/>N-Part</b> | <b>Resolution</b> |
|-----------------------------------|-----------------------------------|-------------------|
| <b>Display Format</b>             | <b>Display Format</b>             |                   |
| 0,00 mils – 14,98 mils            | 0,00 mils – 14,98 mils            | 0,02 mils         |
| 15,00 mils – 29,95 mils           | 15,00 mils – 29,95 mils           | 0,05 mils         |
| 30,0 mils – 59,9 mils             | 30,0 mils – 59,9 mils             | 0,1 mils          |
| 60,0 mils – 149,8 mils            | 60,0 mils – 149,8 mils            | 0,2 mils          |
| 150,0 mils – 299,5 mils           | 150,0 mils – 299,5 mils           | 0,5 mils          |
| 300 mils – 599 mils               | 300 mils – 599 mils               | 1 mils            |
| 600 mils – 2952 mils              | 600 mils – 1590 mils              | 2 mils            |

maximum display values:

F-Part: 1393 mils

N-Part: 795 mils

## *Resolution of measurements for MiniTest 7 FN100 Sensor*

### *metric*

(Low range resolution 20  $\mu\text{m}$ )

| <b><i>Measuring Range</i></b> | <b><i>Resolution</i></b> |
|-------------------------------|--------------------------|
| <b><i>Display Format</i></b>  |                          |
| 0,00 mm – 4,98 mm             | 20 $\mu\text{m}$         |
| 5,0 mm – 24,95 mm             | 50 $\mu\text{m}$         |
| 25,0 mm – 74,9 mm             | 100 $\mu\text{m}$        |
| 75,0 mm – 204,0 mm            | 200 $\mu\text{m}$        |

maximum display values: 102,0 mm

### *imperial*

(Low range resolution 1 mils)

| <b><i>Measuring Range</i></b> | <b><i>Resolution</i></b> |
|-------------------------------|--------------------------|
| <b><i>Display Format</i></b>  |                          |
| 0,000 inch – 0,199 inch       | 1 mils                   |
| 0,200 inch – 0,998 inch       | 2 mils                   |
| 1,000 inch – 2,995 inch       | 5 mils                   |
| 3,00 inch – 8,03 inch         | 10 mils                  |

maximum display values: 4,01 inch