

Series

MTA



- Flexible magnetic scale with adhesive tape
- Absolute coding
- Cover strip available on request
- Resistant to debris, liquids and oils
- MTA-A104, MTA-A153, MTA-A154, MTA-A096, MTA-A301, MTA-A302 series



MTA

### ENVIRONMENTAL SPECIFICATIONS

|                              |                             |
|------------------------------|-----------------------------|
| Protection:                  | IP67                        |
| Operating temperature range: | -25°C +85°C (-13°F +185°F)  |
| Storage temperature range:   | -40°C +100°C (-40°F +212°F) |

### MECHANICAL SPECIFICATIONS

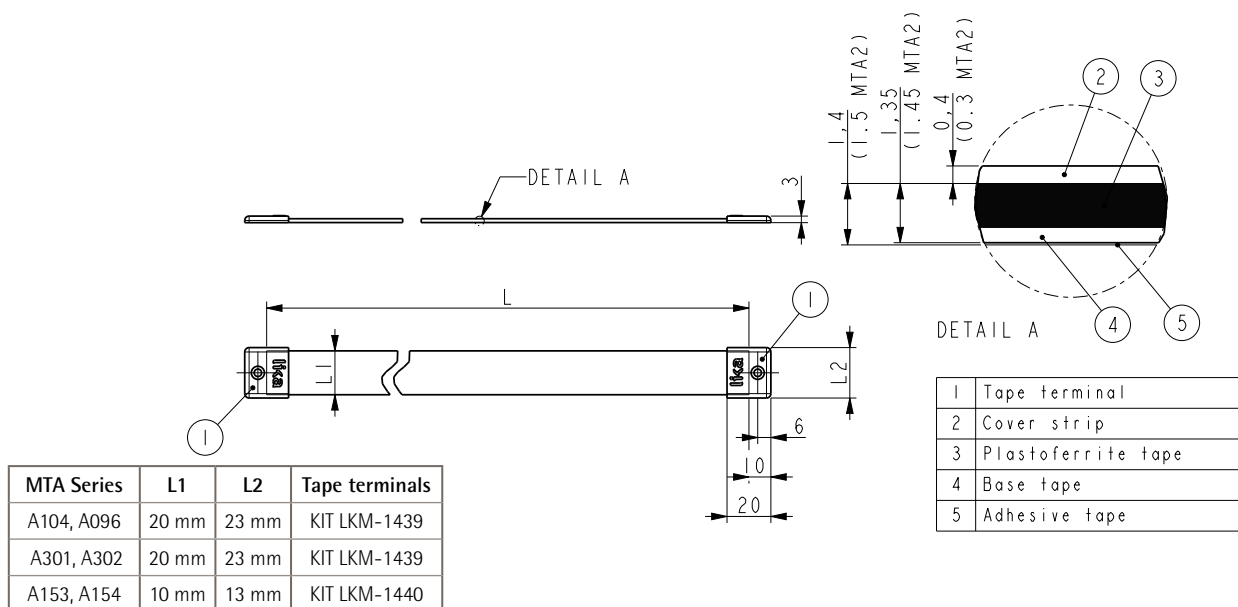
|                                |                                   |
|--------------------------------|-----------------------------------|
| Dimensions:                    | see drawing                       |
| Material:                      | plastoferrite and stainless steel |
| Accuracy class:                | see order code                    |
| Thermal expansion coefficient: | 16 * 10 <sup>-6</sup> /K          |
| Length:                        | see order code                    |

### CHEMICAL RESISTANCE INFORMATION

|                                                                                      |     |                     |     |
|--------------------------------------------------------------------------------------|-----|---------------------|-----|
| Acetone                                                                              | ••  | Mineral / Motor oil | •   |
| Acetylene                                                                            | ••  | Petrol              | ••  |
| Antifreeze (Glacial acetic acid)                                                     | •   | Seawater            | ••  |
| Benzene                                                                              | ••• | Steam heat          | •   |
| Heptane                                                                              | ••• | Thinner             | ••• |
| Kerosene                                                                             | •   | Turpentine          | ••  |
| Ketone                                                                               | ••• |                     |     |
| <p>• No effect or low effect      •• Low to Medium effect      ••• Strong effect</p> |     |                     |     |

### ACCESSORIES

|               |                                |
|---------------|--------------------------------|
| KIT LKM-1440: | set of tape terminals (10 pcs) |
| KIT LKM-1439: | set of tape terminals (10 pcs) |



MTA-xxxx

Order code

|     |   |      |   |     |   |        |   |     |   |     |   |     |   |     |       |
|-----|---|------|---|-----|---|--------|---|-----|---|-----|---|-----|---|-----|-------|
| MTA | - | XXXX | - | XX  | - | XXXXXX | - | X   | - | X   | - | X   | - | XXX | /Sxxx |
|     |   | (a)  |   | (b) |   | (c)    |   | (d) |   | (e) |   | (f) |   | (g) | (h)   |

|                                                 |                                                                                                        |                                                           |                                                            |                                             |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|---------------------------------------------|
| <b>(a) CODING</b><br>A104 (MTA1)<br>A096 (MTA5) | <b>(c) LENGTH</b><br>000100 = 0,1 m<br>000200 = 0,2 m<br>... = ...<br>004500 = 4,5 m<br>005100 = 5,1 m | <b>(d) BIADHESIVE</b><br>B = supplied<br>N = not supplied | <b>(f) COVER STRIP</b><br>C = supplied<br>N = not supplied | <b>(g) ACCURACY CLASS</b><br>050 = ±35 µm/m |
| <b>(b) WIDTH</b><br>20 = 20 mm                  | <b>(e) PRINTING</b><br>P = standard<br>S = custom                                                      | <b>(h) CUSTOM VERSION</b>                                 |                                                            |                                             |

Order code

|     |   |      |   |     |   |        |   |     |   |     |   |     |   |     |       |
|-----|---|------|---|-----|---|--------|---|-----|---|-----|---|-----|---|-----|-------|
| MTA | - | XXXX | - | XX  | - | XXXXXX | - | X   | - | X   | - | X   | - | XXX | /Sxxx |
|     |   | (a)  |   | (b) |   | (c)    |   | (d) |   | (e) |   | (f) |   | (g) | (h)   |

|                                  |                                                                                   |                                                           |                                        |                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------|
| <b>(a) CODING</b><br>A153 (MTA2) | <b>(c) LENGTH</b><br>001000 = 1 m<br>002000 = 2 m<br>003000 = 3 m<br>004000 = 4 m | <b>(d) BIADHESIVE</b><br>B = supplied<br>N = not supplied | <b>(f) COVER STRIP</b><br>C = supplied | <b>(g) ACCURACY CLASS</b><br>040 = ±40 µm/m<br>010 = ±10 µm/m (max. length 2 m) |
| <b>(b) WIDTH</b><br>10 = 10 mm   | <b>(e) PRINTING</b><br>P = standard<br>S = custom                                 | <b>(h) CUSTOM VERSION</b>                                 |                                        |                                                                                 |

Order code

|     |   |           |   |         |   |             |   |        |   |        |   |        |   |          |            |
|-----|---|-----------|---|---------|---|-------------|---|--------|---|--------|---|--------|---|----------|------------|
| MTA | - | XXXX<br>Ⓐ | - | XX<br>Ⓑ | - | XXXXXX<br>Ⓒ | - | X<br>Ⓓ | - | X<br>Ⓔ | - | X<br>Ⓕ | - | XXX<br>Ⓖ | /Sxxx<br>Ⓗ |
|-----|---|-----------|---|---------|---|-------------|---|--------|---|--------|---|--------|---|----------|------------|

|                                      |                                                                                                                        |                                                         |                                                          |                                         |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|
| <b>Ⓐ CODING</b><br>A154 = SMA21 code | <b>Ⓒ LENGTH</b><br>005000 = 5 m<br>010000 = 10 m<br>015000 = 15 m<br>020000 = 20 m<br>025000 = 25 m<br>032800 = 32,8 m | <b>Ⓓ BIADHESIVE</b><br>B = supplied<br>N = not supplied | <b>Ⓔ COVER STRIP</b><br>C = supplied<br>N = not supplied | <b>Ⓖ ACCURACY CLASS</b><br>040 = ±40 µm |
| <b>Ⓑ WIDTH</b><br>10 = 10 mm         |                                                                                                                        | <b>Ⓔ PRINTING</b><br>P = standard<br>S = custom         | <b>Ⓗ CUSTOM VERSION</b>                                  |                                         |

Order code

|     |   |           |   |         |   |             |   |        |   |        |   |        |   |          |
|-----|---|-----------|---|---------|---|-------------|---|--------|---|--------|---|--------|---|----------|
| MTA | - | XXXX<br>Ⓐ | - | XX<br>Ⓑ | - | XXXXXX<br>Ⓒ | - | X<br>Ⓓ | - | X<br>Ⓔ | - | X<br>Ⓕ | - | XXX<br>Ⓖ |
|-----|---|-----------|---|---------|---|-------------|---|--------|---|--------|---|--------|---|----------|

|                                                                       |                                                                                                                                                    |                                                         |                                                     |                                           |
|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|-------------------------------------------|
| <b>Ⓐ CODING</b><br>A301 (with SMAX sensor)<br>A302 (with SMAZ sensor) | <b>Ⓒ LENGTH</b><br>MTAX-280 = 280 mm (ML = 200)<br>MTAX-380 = 380 mm (ML = 300)<br>MTAX-680 = 680 mm (ML = 600)<br>MTAZ-1330 = 1330 mm (ML = 1250) | <b>Ⓓ BIADHESIVE</b><br>B = supplied<br>N = not supplied | <b>Ⓔ COVER STRIP</b><br>C = supplied                | <b>Ⓖ ACCURACY CLASS</b><br>050 = ± 35µm/m |
| <b>Ⓑ WIDTH</b><br>20 = 20 mm                                          |                                                                                                                                                    | <b>Ⓔ PRINTING</b><br>P = standard<br>S = custom         | Product combination: SMAX + MTAA301, SMAZ + MTAA302 |                                           |

| Document release | Date           | Description                   |
|------------------|----------------|-------------------------------|
| 1.4              | 29.11.2024     | MTA A154                      |
| 1.3              | 18.03.2024     | MTA A153 accuracy class (010) |
| 1.2              | September 2023 | New order code                |