

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-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                    |

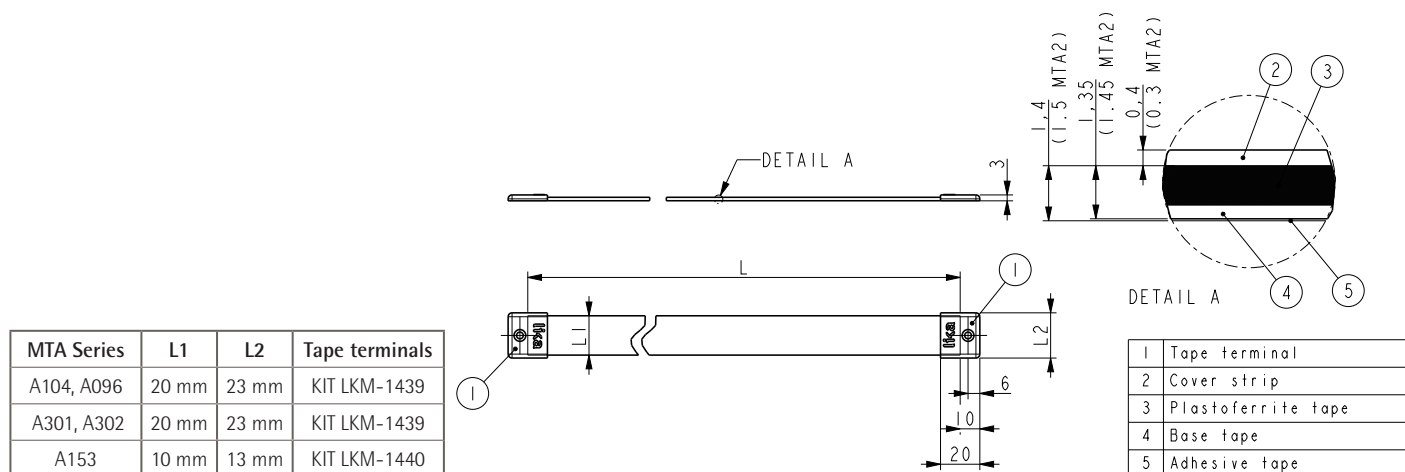
#### CHEMICAL RESISTANCE INFORMATION

|                                  |     |                     |     |
|----------------------------------|-----|---------------------|-----|
| Acetone                          | ••  | Mineral / Motor oil | •   |
| Acetylene                        | ••  | Petrol              | ••  |
| Antifreeze (Glacial acetic acid) | •   | Seawater            | ••  |
| Benzene                          | ••• | Steam heat          | •   |
| Heptane                          | ••• | Thinner             | ••• |
| Kerosene                         | •   | Turpentine          | ••  |
| Ketone                           | ••• |                     |     |

• No effect or low effect      •• Low to Medium effect      ••• Strong effect

#### 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)   |

|  |   |   |  |   |   |
|--|---|---|--|---|---|
| (a) CODING<br>A104 (MTA1)<br>A096 (MTA5) | (c) LENGTH<br>000100 = 0,1 m<br>000200 = 0,2 m<br>... = ... | 001500 = 1,5 m<br>... = ...<br>004500 = 4,5 m<br>005100 = 5,1 m | (d) BIADHESIVE<br>B = supplied<br>N = not supplied | (f) COVER STRIP<br>C = supplied<br>N = not supplied | (g) ACCURACY CLASS<br>050 = ±35 µm/m (up to 30 m) |
| (b) WIDTH<br>20 = 20 mm                  | (h) CUSTOM VERSION  |   |  |   |   |

Order code

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

|                           |  |  |  |                                 |                                      |
|---------------------------|--|--|--|---------------------------------|--------------------------------------|
| (a) CODING<br>A153 (MTA2) | (c) LENGTH<br>001000 = 1 m<br>002000 = 2 m<br>003000 = 3 m<br>004000 = 4 m | 005000 = 5 m<br>006000 = 6 m<br>007000 = 7 m<br>008200 = 8,2 m | (d) BIADHESIVE<br>B = supplied<br>N = not supplied | (f) COVER STRIP<br>C = supplied | (g) ACCURACY CLASS<br>040 = ±40 µm/m |
| (b) WIDTH<br>10 = 10 mm   | (h) CUSTOM VERSION   |  |  |                                 |                                      |

Order code

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

|  |   |  |                                 |                                      |
|--|---|--|---------------------------------|--------------------------------------|
| (a) CODING<br>A301 (with SMAX sensor)<br>A302 (with SMAZ sensor) | (c) LENGTH<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) | (d) BIADHESIVE<br>B = supplied<br>N = not supplied | (f) COVER STRIP<br>C = supplied | (g) ACCURACY CLASS<br>050 = ± 35µm/m |
| (b) WIDTH<br>20 = 20 mm  | (h) CUSTOM VERSION  |  |                                 |                                      |

Product combination: SMAX + MTA301, SMAZ + MTA302

| Document release | Date           | Description  |
|------------------|----------------|--|
| 1.2              | September 2023 | New order code                                       |
| 1.1              | 29.10.2020     | MTA2 order code updated (removed 0 from cover strip) |