



- Resolution up to 0,01°
- High accuracy,  $\pm 0,1$  deg
- Available in 2 axes or single axis version
- Programmable filter
- Very high MTTF
- Robust die cast housing with protective resin



IXM1 • IXM2

### ENVIRONMENTAL SPECIFICATIONS

|                              |  |
|------------------------------|--|
| Shock:                       | 300 g, 11 ms acc. to EN60068-2-27  |
| Vibrations:                  | 8,2-500 Hz, 40 m/s <sup>2</sup> acc. to EN60068-2-6<br>10-500 Hz, 3 g acc. to EN60068-2-64 |
| Protection:                  | IP67   |
| Operating temperature range: | -40°C +85°C (-40°F +185°F)   |
| Storage temperature range:   | -40°C +85°C (-40°F +185°F)   |

### MECHANICAL SPECIFICATIONS

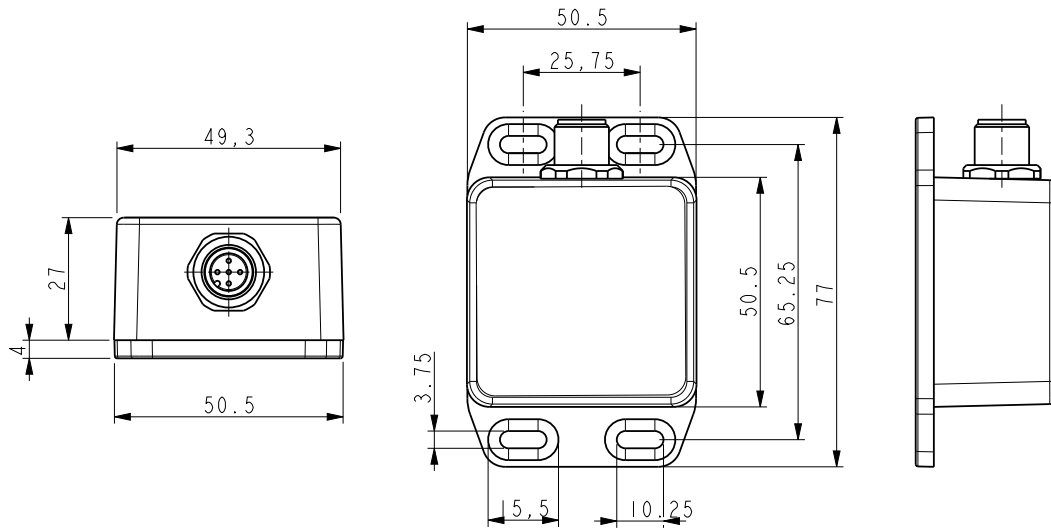
|                         |                          |
|-------------------------|--------------------------|
| Dimensions:             | see drawing              |
| Housing material:       | die cast aluminium alloy |
| Electrical connections: | cable, M12 5 pin plug    |

### ELECTRICAL SPECIFICATIONS

|                                   |  |
|-----------------------------------|--|
| Resolution:                       | 0,01°  |
| Accuracy:                         | typ. $\pm 0,1^\circ$ (max. $\pm 0,5^\circ$ )   |
| Temperature drift:                | $\pm 0,01$ deg/°C  |
| Measurement range (programmable): | 1 axis mode: 0-360 deg or $\pm 180$ deg<br>2 axes mode: from $\pm 5$ to $\pm 60$ deg |
| Output circuit:                   | Modbus RTU V1.02   |
| Baudrate:                         | 2400 - 38400 bit/s (programmable)  |
| Power supply:                     | +10Vdc +30Vdc  |
| Power consumption:                | 6.50 mA max.   |
| Protection:                       | against inversion of polarity  |
| EMC:                              | acc. to EN 61000-6-2, EN 61000-6-3   |
| Functions:                        | programmable filter  |

### ACCESSORIES

|                    |                             |
|--------------------|-----------------------------|
| E-M12FC:           | M12 5 pin connector         |
| EC-M12FC-LK-CB-5:  | M12 cordset with 5 m cable  |
| EC-M12FC-LK-CB-10: | M12 cordset with 10 m cable |



IXM1 • IXM2

Order code - 1 axis version

|      |   |         |   |          |   |         |   |            |
|------|---|---------|---|----------|---|---------|---|------------|
| IXM1 | - | XX<br>Ⓐ | - | XXX<br>Ⓑ | - | XX<br>Ⓒ | - | /Sxxx<br>Ⓓ |
|------|---|---------|---|----------|---|---------|---|------------|

|  |   |   |                         |
|--|---|---|-------------------------|
| <p>Ⓐ OUTPUT</p> <p>MB = Modbus RTU</p> | <p>Ⓑ MEASURING RANGE</p> <p>005 = ±5°</p> <p>015 = ±15°</p> <p>030 = ±30°</p> <p>045 = ±45°</p> <p>060 = ±60°</p> <p>360 = 0...360° / ±180° only in 1 axis mode</p> | <p>Ⓒ CONNECTION</p> <p>L1 = cable 1 m (standard)</p> <p>M = M12 5 pin connector</p> | <p>Ⓓ CUSTOM VERSION</p> |
|--|---|---|-------------------------|

Order code - 2 axis version

|      |   |         |   |          |   |         |   |            |
|------|---|---------|---|----------|---|---------|---|------------|
| IXM2 | - | XX<br>Ⓐ | - | XXX<br>Ⓑ | - | XX<br>Ⓒ | - | /Sxxx<br>Ⓓ |
|------|---|---------|---|----------|---|---------|---|------------|

|  |   |   |                         |
|--|---|---|-------------------------|
| <p>Ⓐ OUTPUT</p> <p>MB = Modbus RTU</p> | <p>Ⓑ MEASURING RANGE</p> <p>005 = ±5°</p> <p>015 = ±15°</p> <p>030 = ±30°</p> <p>045 = ±45°</p> <p>060 = ±60°</p> <p>360 = 0...360°</p> | <p>Ⓒ CONNECTION</p> <p>L1 = cable 1 m (standard)</p> <p>M = M12 5 pin connector</p> | <p>Ⓓ CUSTOM VERSION</p> |
|--|---|---|-------------------------|