

# Standard Running Line Monitor

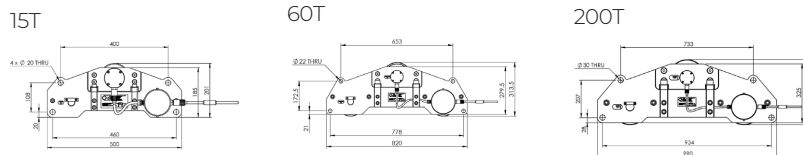
## RLM-3.0-S

The DLM Running Line Monitor measures the tension on a rope passing through its three wheels. Typically used in cable laying and winch operations to measure and record line tension the robust design has become an industry standard. The monitor can be supplied as a separate item for integration with customers existing PLC's or with a DLM digital display/HMI touch screen display.

As a highly accurate piece of equipment, RLM wheels are designed and manufactured for a specific rope diameter. As a result, they are made to order. Customers are asked to select one required rope diameter when placing an RLM order. Additional wheel sizes for alternative rope diameters are available to purchase separately on request.

Product available in the following sizes: 15T, 60T, 200T.

### Dimensional Data



### Available Models

| Part Number | Description               | Size | Wheel Sizes    |
|-------------|---------------------------|------|----------------|
| 0001-1466   | Tension, Speed & Distance | 15t  | ; 8mm to 36mm  |
| 0001-1467   | Tension Only              | 15t  | ; 8mm to 36mm  |
| 0001-1407   | Tension, Speed & Distance | 60t  | ; 26mm to 60mm |
| 0001-1460   | Tension Only              | 60t  | ; 26mm to 60mm |
| 0001-1408   | Tension, Speed & Distance | 200t | ; 38mm to 76mm |
| 0001-1461   | Tension Only              | 200t | ; 38mm to 76mm |

Price quoted will include single size diameter wheels only. Additional diameter wheels can be purchased separately upon request.

### Accessories Table

| Part Number | Description   |
|-------------|---------------|
| 0001-1452   | Tethering Arm |
| 0001-1451   | Tethering Arm |
| 0001-1450   | Tethering Arm |

### Specification

|                               |                                                                                                                                                                                                                                                                                               |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frame Construction:           | CNC machined side plates fixed together using high tensile stainless steel bolts and supporting spacers. No welded joints. Dual frame construction (upper and lower) for easy rigging and rope insertion. O-ring sealed encoder protection casing. Sealed roller bearings used on all wheels. |
| Frame Finish:                 | Galvanised prior to painting. Colour to suit customer requirements (orange and black as standard) Painted with marine grade paint.                                                                                                                                                            |
| Wheel Material:               | EN24T alloy steel (Hardened to 40 Rockwell upon request)                                                                                                                                                                                                                                      |
| Axles and Shear Pin Material: | 17-4PH H1150 + 1150 stainless steel                                                                                                                                                                                                                                                           |
| Shear Pin Load Cell Axle:     | Suitable for line tensions up to 15t, 60t, and 200t (depending on model size). Connection through MCBH-3-FS and MCIL-3-MP subsea connectors and IP67 gland to sealed encoder casing. O- ring sealed.                                                                                          |
| Amplifier:                    | 3 Wire 4-20mA current source / 18-24VDC Powered / Mounted in load pin head, signal and power connection through MCBH-8-MP bulkhead connector.                                                                                                                                                 |
| Encoder:                      | Mounted inside O-ring sealed Encoder casing bolted to frame. Push-Pull quadrature output / 18-24VDC powered / Signal and power connection through MCBH-8-MP bulkhead connector                                                                                                                |
| RLM Mounting:                 | 4 machined eyes located on each side plate for easy rigging to spooling gear or for use as lifting points / Machined stainless steel spacers double as lifting or carrying points                                                                                                             |
| Optional Extras:              | Fleeting gear / Mounting posts / Mounting brackets                                                                                                                                                                                                                                            |
| Available RLM Sizes:          | 15t, 60t, and 200t                                                                                                                                                                                                                                                                            |



### Features:

- Fully sealed design to IP67
- Robust design suitable for harsh environments
- Integral speed and distance measurement as well as tension
- Easy to rig without the need to remove sheaves from axles
- Lifting and securing points
- Optional mounting fixtures
- Additional diameter wheels can be purchased separately upon request

### Applications:

- Winch load monitoring
- Towing and salvage
- PLGR
- Cable laying
- Crane load monitoring