



**APPLIED MEASUREMENTS LTD.**  
Transducer Specialists...

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## AML/IE Industrial Series LVDT Displacement Transducer

### Key Features:

- Stroke Ranges:  $\pm 0.5\text{mm}$  to  $\pm 550\text{mm}$
- AC mV/V Output or DC Voltage / Current Output
- Environmental Protection: IP65
- Optional IP68 Submersible Versions
- High Temperature Versions ( $150^{\circ}\text{C}$  and  $200^{\circ}\text{C}$ )
- Magnetically Shielded
- Stainless Steel Construction
- Core + Extension, Spring-Loaded & Rod-End Bearings Versions
- Simple Installation
- Wide Variety of Different Outputs; mVac, 0-5Vdc, 0-10Vdc, 4-20mA,  $\pm 2.5\text{Vdc}$
- 3 Year Warranty

Image shows IP68 rated version with option R rod ends



**Click to watch the video**

The [AML/IE industrial LVDT displacement transducers](#) can be AC or DC powered and are sealed to IP65 as standard with the option of IP68 making them ideally suited for harsh and demanding applications where conditions are humid, wet, dusty or dirty. Typical applications include process plants, paper mills, and industrial test rigs.

The AML/IE industrial displacement transducers are constructed from stainless steel and fitted with a tough cable and can be supplied in a variety of mechanical configurations including captive guided core & extension rod, which is standard, plus spring-loaded core & extension rod with ball-end or guided core & extension with spherical rod-end bearings.

The AML/IE is supplied in a variety of packaging formats, enabling engineers to select quickly and precisely, the product required for a particular application.

An AC mV/V output is available as standard, with a range of DC voltage signal output options also offered including 0-5Vdc, 0-10Vdc and  $\pm 2.5\text{Vdc}$ , as well as a 3-wire 4-20mA current output.

The AML/IE is supported with a versatile range of instrumentation to enable engineers to implement the sensor with the minimum of fuss within a system. Supporting instrumentation includes trip amplifiers, indicators, PC interfaces, rack systems, and more, please [contact us](#) to discuss your requirements.

### Options:

- Variety of Mechanical Configurations Available
- Longer Cable Lengths
- Higher Temperature Versions ( $150^{\circ}\text{C}$  and  $200^{\circ}\text{C}$ )
- Custom Design Versions Available
- $\pm 0.25\%$  Accuracy
- IP68 Sealing to 5bar (50 metres depth)
- Integral Bayonet Lock Connector
- Axial Cable Exit
- Wireless Versions (via T24 instrumentation)
- Single or Multi-Channel PC-Based Monitoring & Data Logging System.

### Applications:

- Process Plants
- Paper Mills
- Industrial Test Rigs
- Harsh & Demanding Applications (IP68)



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## Specification:

| CHARACTERISTICS   | AML/IE   | AML/IEJ | AML/IEU    | AML/IEU -10 | AML/IEI     | AML/IED         | UNITS             |
|---|--|---------|------------|-------------|-------------|-----------------|-------------------|
| Stroke Measurement Range:   | ±0.5, ±2.5, ±5, ±10, ±12.5, ±15, ±25, ±50, ±75, ±100, ±125, ±150, ±175, ±200, ±250<br>±300, ±400, ±500, ±550 (maximum stroke is ±125 for Sprung Loaded Core & Extension)   |         |            |             |             |                 | millimetres       |
| Signal Output:  | See Table Below  |         | 0-5volt    | 0-10volt    | 4-20mA      | ±2.5volt        |                   |
| No. of Wires  | 6  | 4       | 3          | 3           | 3           | 4               |                   |
| Supply Voltage (unregulated):   | 2 to 5Vrms @ 1 to 5kHz   |         | 10-24Vdc   | 14-24Vdc    | 14-24Vdc    | 12Vdc regulated |                   |
| Supply Current:   | -  |         | 35mA @ 15V | 35mA @ 15V  | 35mA typ.   | 35mA @ 12V      |                   |
| Max. Loop Resistance:   | -  |         | -          | -           | 300 @ 30V   | -               | ohms              |
| Max. Output Sink Current:   | -  |         | 0.5        | 1           | -           | 0.1             | milliamps         |
| Non-Linearity:  | <0.50 (<0.25 optional)   |         |            |             |             |                 | ±% Stroke Range   |
| Repeatability:  | <0.10  |         |            |             |             |                 | ±% Stroke Range   |
| Output Bandwidth (flat):  | 100  |         | 100        | 100         | 100         | 100             | Hz                |
| Output Ripple:  | -  |         | 30mV max.  | 30mV max.   | 0.1% @ 20mA | 30mV max.       |                   |
| Operating Temperature Range:  | AML/IE & IEJ: -30 to +85 Standard / -30 to +150 and +200 Optional<br>-20 to +85 on DC/DC models / 0 to +70 for in-line conditioner (where fitted)                          |         |            |             |             |                 | °C                |
| Zero Temperature Coefficient:   | <0.020   |         | <0.010     |             |             |                 | ±%Stroke Range/°C |
| Span Temperature Coefficient:   | <0.020   |         | <0.030     |             |             |                 | ±%Stroke Range/°C |
| Vibration Resistance:   | 20g up to 2kHz   |         |            |             |             |                 |                   |
| Shock Resistance:   | 1000g for 10milliseconds   |         |            |             |             |                 |                   |
| Construction Materials:   | Body & Extension Rod: 303 St/Steel, Core: 416 St/Steel, Cable Gland: Nickel-Plated Brass,<br>Spring: 316 St/Steel, Rod-End Bearings: Mild Steel (St/Steel on IP68 version) |         |            |             |             |                 |                   |
| Connecting Cable:   | 2 metre screened PVC cable* (*IP68 = PUR / Hi-Temp = PTFE).  |         |            |             |             |                 |                   |
| Environmental Sealing:  | IP65 (IP68 optional)   |         |            |             |             |                 |                   |
| Note: On DC output version (0Vdc / 4mA) is given with the core in the extended / outwards position. This can be reversed if required, please request <b>Option Y</b> on your order. |  |         |            |             |             |                 |                   |

## Industrial LVDT AC Version

### Wiring AC Version:

#### 4-wire AC Version (PVC or PTFE, High Temperature 150°C and 200°C)

| Wire   | Designation                           |
|--------|---------------------------------------|
| Red    | Primary +ve                           |
| Yellow | Primary -ve                           |
| Blue   | Secondary +ve                         |
| Green  | Secondary -ve                         |
| Ground | Screen (not connected to sensor body) |



## Wiring AC Version continued:

### 6-wire AC Version (PVC)

| Wire   | Designation                           |
|--------|---------------------------------------|
| Yellow | Primary +ve                           |
| Black  | Primary -ve                           |
| Green  | Secondary 1 +ve                       |
| Red    | Secondary 1 -ve (centre tap)          |
| White  | Secondary 2 +ve                       |
| Blue   | Secondary 2 -ve (centre tap)          |
| Ground | Screen (not connected to sensor body) |

### 6-wire AC Version (PTFE, High Temperature 150°C and 200°C)

| Wire   | Designation                           |
|--------|---------------------------------------|
| Yellow | Primary +ve                           |
| Black  | Primary -ve                           |
| Blue   | Secondary 2 -ve (centre tap)          |
| Brown  | Secondary 2 +ve                       |
| Green  | Secondary 1 +ve                       |
| Red    | Secondary 1 -ve (centre tap)          |
| Ground | Screen (not connected to sensor body) |

## Dimensions AC Versions (mm):

| Stroke (mm) | Standard (Plain Core + Extension) | Standard and Option R (Rod End Bearings)    |         |                           |                             | Option R (Rod End Bearings) |                      |                      |
|-------------|-----------------------------------|---|---------|---------------------------|-----------------------------|-----------------------------|----------------------|----------------------|
|             | Body Length (mm)                  | Sensitivity @ 3kHz with 50K load (mV/V FRO) | NULL mV | Primary Resistance (ohms) | Secondary Resistance (ohms) | Body Length (mm)            | M6 "L" (mm) (+50+18) | M8 "L" (mm) (+50+21) |
| ±0.5        | 100                               | 175   | 20      | 40                        | 1800                        | 100                         | 168                  | 171                  |
| ±2.5        | 100                               | 140   | 5       | 130                       | 740                         | 100                         | 168                  | 171                  |
| ±5          | 115                               | 135   | 5       | 48                        | 108                         | 120                         | 188                  | 191                  |
| ±10         | 140                               | 270   | 5       | 70                        | 170                         | 140                         | 208                  | 211                  |
| ±12.5       | 160                               | 195   | 5       | 120                       | 190                         | 160                         | 228                  | 231                  |
| ±15         | 175                               | 246   | 5       | 90                        | 190                         | 175                         | 243                  | 246                  |
| ±25         | 235                               | 225   | 5       | 130                       | 210                         | 235                         | 303                  | 306                  |
| ±50         | 320                               | 260   | 5       | 200                       | 270                         | 320                         | 388                  | 391                  |
| ±75         | 390                               | 390   | 20      | 260                       | 460                         | 390                         | 458                  | 461                  |
| ±100        | 450                               | 240   | 5       | 150                       | 150                         | 450                         | 518                  | 521                  |
| ±125        | 500                               | 260   | 5       | 180                       | 320                         | 500                         | 568                  | 571                  |
| ±150        | 560                               | 230   | 5       | 210                       | 290                         | 560                         | 628                  | 631                  |
| ±175        | 615                               | 260   | 2       | 230                       | 360                         | 615                         | 683                  | 686                  |
| ±200        | 700                               | 285   | 10      | 250                       | 430                         | 700                         | 768                  | 771                  |
| ±250        | 810                               | 310   | 10      | 290                       | 560                         | 810                         | 878                  | 881                  |
| ±300        | 920                               | 270   | 5       | 690                       | 770                         | 920                         | 988                  | 991                  |
| ±400        | 1150                              | 440   | 20      | 450                       | 1010                        | 1150                        | 1218                 | 1221                 |
| ±500        | 1410                              | 475   | 10      | 550                       | 1530                        | 1410                        | 1478                 | 1481                 |
| ±550        | 1410                              | 345   | 10      | 550                       | 1530                        | 1410                        | 1478                 | 1481                 |

**For sprung-loaded dimensions and outline drawing see page 6.**



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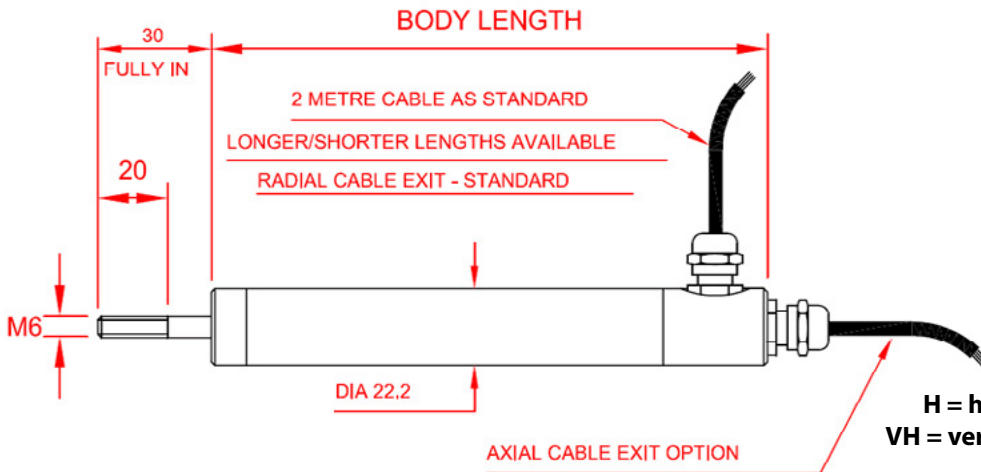
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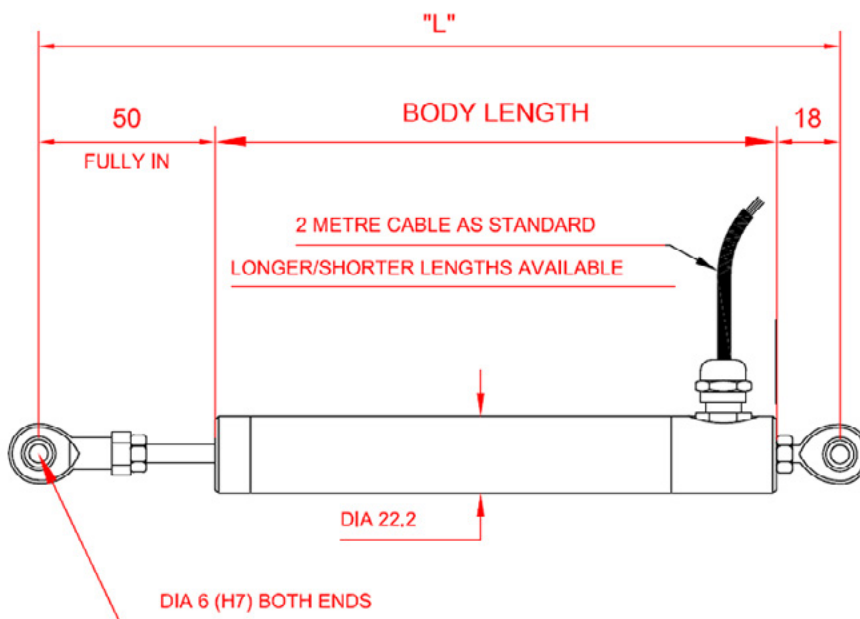
**Dimensions AC (mm) continued:**

**Plain Core + Extension  
AML-IE Industrial  
AC Version  
(mm)**



**Options:**

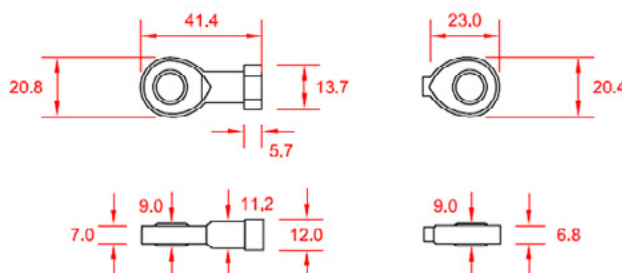
- A = axial cable exit
- R = radial cable exit
- J = 4-wire device
- G = extension rod wiper
- W = waterproof IP68
- H = high temperature 150°C, with PTFE cable
- VH = very high temperature 200°C, with PTFE cable
- Z = armoured hose
- 024 = increased linearity,  $\pm 0.25\%$



**Option R M6  
AML-IE  
AC Version with  
M6 Rod End Bearings  
(mm)**

**Options:**

- R = radial cable only
- J = 4-wire device
- G = extension rod wiper
- W = waterproof IP68, with stainless steel M6 rod end bearings
- H = high temperature 150°C, with PTFE cable and stainless steel M6 rod end bearings
- VH = very high temperature 200°C, with PTFE cable and stainless steel M6 rod end bearings
- Z = armoured hose
- 024 = increased linearity,  $\pm 0.25\%$



**Axial cable exit is NOT available with rod ends unless rod end is on the extension ONLY**



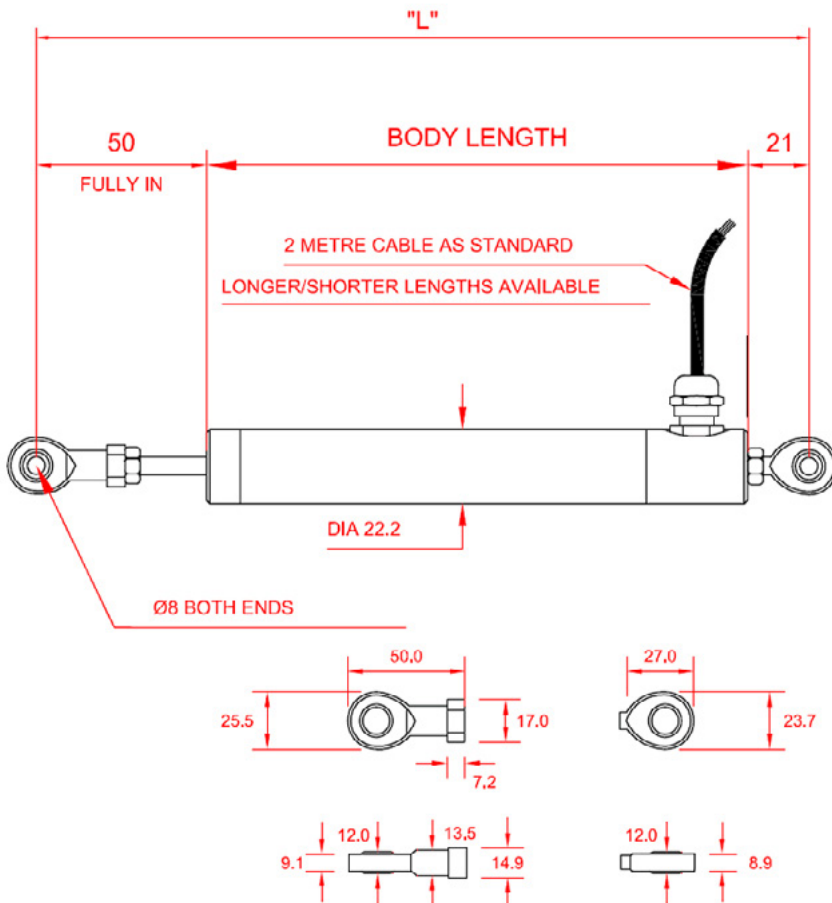
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### Dimensions AC (mm) continued:



### **Option R M8 AML-IE AC Version with M8 Rod End Bearings (mm)**

#### **Options:**

R = radial cable only

J = 4-wire device

G = extension rod wiper

W = waterproof IP68, with stainless steel M8 rod end bearings

H = high temperature 150°C, with PTFE cable and stainless steel M8 rod end bearings

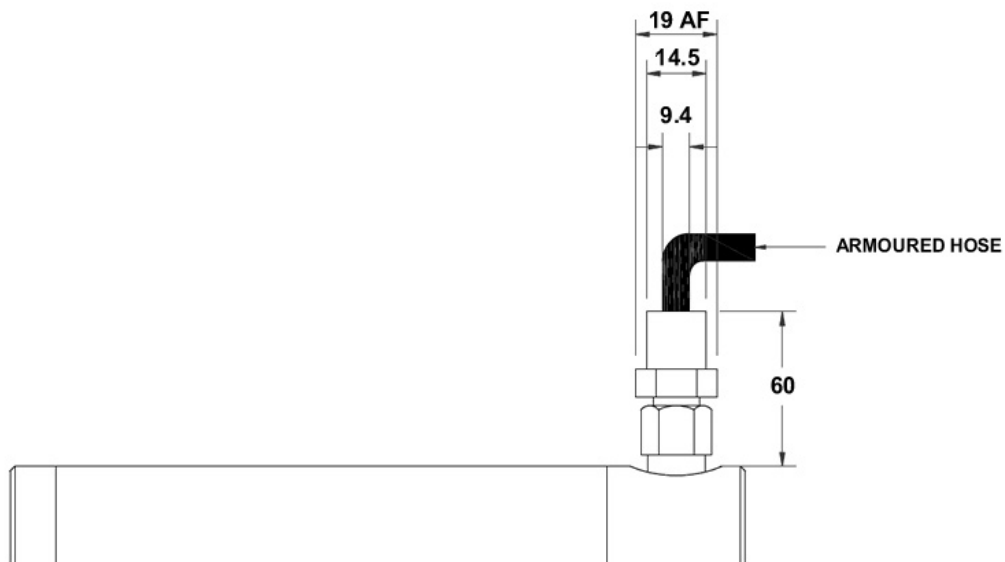
VH = very high temperature 200°C, with PTFE cable and stainless steel M8 rod end bearings

Z = armoured hose

024 = increased linearity,  $\pm 0.25\%$

**Axial cable exit is NOT available with rod ends unless rod end is on the extension ONLY**

### **Z = Armoured Hose**

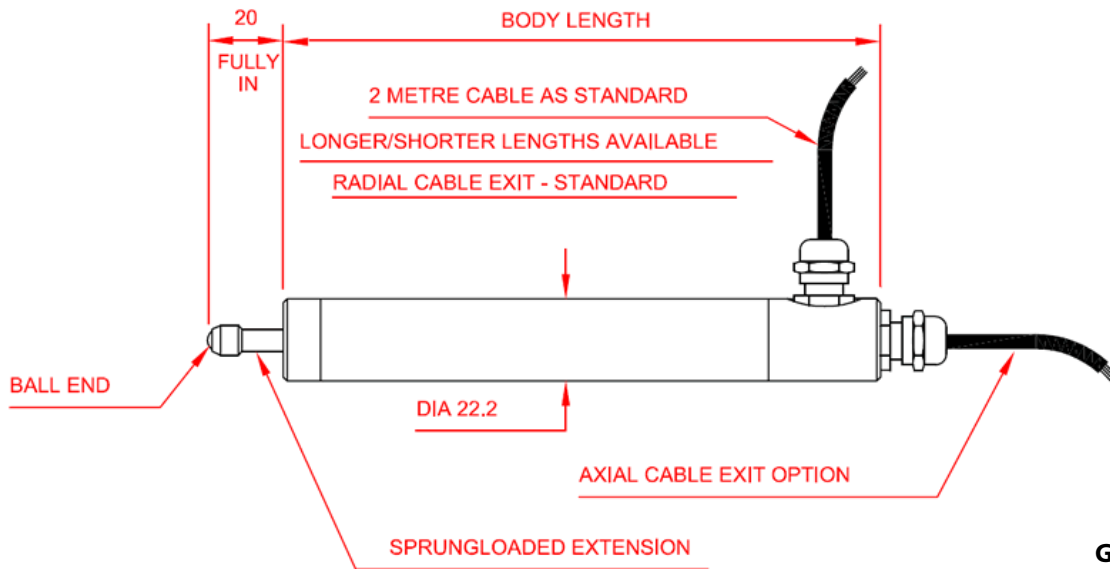




**Dimensions AC (mm) continued:**

**Dimensions AC Sprung-Loaded Option S**

| Stroke (mm) | Body Length (mm) | Sensitivity @ 3kHz with 50K load (mV/V FRO) | NULL mV | Primary Resistance (ohms) | Secondary Resistance (ohms) | Spring Rate (N/mm) |
|-------------|------------------|---|---------|---------------------------|-----------------------------|--------------------|
| ±0.5        | 100              | 175   | 20      | 40                        | 1800                        | 0.2591             |
| ±2.5        | 100              | 140   | 5       | 130                       | 740                         | 0.2591             |
| ±5          | 115              | 135   | 5       | 48                        | 108                         | 0.1457             |
| ±10         | 160              | 270   | 5       | 72                        | 138                         | 0.0833             |
| ±12.5       | 160              | 195   | 5       | 72                        | 138                         | 0.0833             |
| ±15         | 175              | 246   | 5       | 90                        | 190                         | 0.0648             |
| ±25         | 235              | 225   | 5       | 130                       | 210                         | 0.0530             |
| ±50         | 320              | 260   | 5       | 200                       | 270                         | 0.0364             |
| ±75         | 390              | 390   | 20      | 260                       | 460                         | 0.0291             |
| ±100        | 440              | 240   | 20      | 260                       | 460                         | 0.0233             |
| ±125        | 525              | 260   | 5       | 145                       | 230                         | 0.0179             |



**Option S**  
**AML-IE**  
**AC Version**  
**Sprung Loaded**  
**(mm)**

**Options:**

- R = radial cable
- A = axial cable
- J = 4-wire device
- G = extension rod wiper
- SW = waterproof IP68
- H = high temperature 150°C, with PTFE cable
- VH = very high temperature 200°C, with PTFE cable
- Z = armoured hose
- 024 = increased linearity, ±0.25%



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## Industrial LVDT DC Version

### Wiring DC Version:

3-wire DC Versions (4-20mA, 0-5Vdc, 0-10Vdc,  $\pm 2.5$ Vdc)

| Wire   | Designation                           |
|--------|---------------------------------------|
| Red    | Supply                                |
| Blue   | 0V common                             |
| Green  | Signal                                |
| Ground | Screen (not connected to sensor body) |

### Dimensions DC Versions (mm):

| Stroke (mm) | Standard         | Option R (Rod End Bearings) |                      |                      | Option S (Sprung Loaded) |                    |
|-------------|------------------|-----------------------------|----------------------|----------------------|--------------------------|--------------------|
|             | Body Length (mm) | Body Length (mm)            | M6 "L" (mm) (+50+18) | M8 "L" (mm) (+50+21) | Body Length (mm)         | Spring Rate (N/mm) |
| $\pm 0.5$   | 130              | 130                         | 198                  | 201                  | 130                      | 0.1295             |
| $\pm 2.5$   | 140              | 140                         | 208                  | 211                  | 140                      | 0.1166             |
| $\pm 5$     | 165              | 165                         | 233                  | 236                  | 165                      | 0.0897             |
| $\pm 10$    | 180              | 180                         | 248                  | 251                  | 180                      | 0.0729             |
| $\pm 12.5$  | 210              | 210                         | 278                  | 281                  | 210                      | 0.0614             |
| $\pm 15$    | 225              | 225                         | 293                  | 296                  | 225                      | 0.0555             |
| $\pm 25$    | 285              | 285                         | 353                  | 356                  | 285                      | 0.0416             |
| $\pm 50$    | 370              | 370                         | 438                  | 441                  | 370                      | 0.0291             |
| $\pm 75$    | 440              | 440                         | 508                  | 511                  | 440                      | 0.0233             |
| $\pm 100$   | 500              | 500                         | 568                  | 571                  | 440                      | 0.0233             |
| $\pm 125$   | 550              | 550                         | 618                  | 621                  | 525                      | 0.0179             |
| $\pm 150$   | 610              | 610                         | 678                  | 681                  | n/a                      | n/a                |
| $\pm 175$   | 665              | 665                         | 733                  | 736                  | n/a                      | n/a                |
| $\pm 200$   | 750              | 750                         | 818                  | 821                  | n/a                      | n/a                |
| $\pm 250$   | 860              | 860                         | 928                  | 931                  | n/a                      | n/a                |
| $\pm 300$   | 970              | 970                         | 1038                 | 1041                 | n/a                      | n/a                |
| $\pm 400$   | 1200             | 1200                        | 1268                 | 1271                 | n/a                      | n/a                |
| $\pm 500$   | 1460             | 1460                        | 1528                 | 1531                 | n/a                      | n/a                |
| $\pm 550$   | 1460             | 1460                        | 1528                 | 1531                 | n/a                      | n/a                |



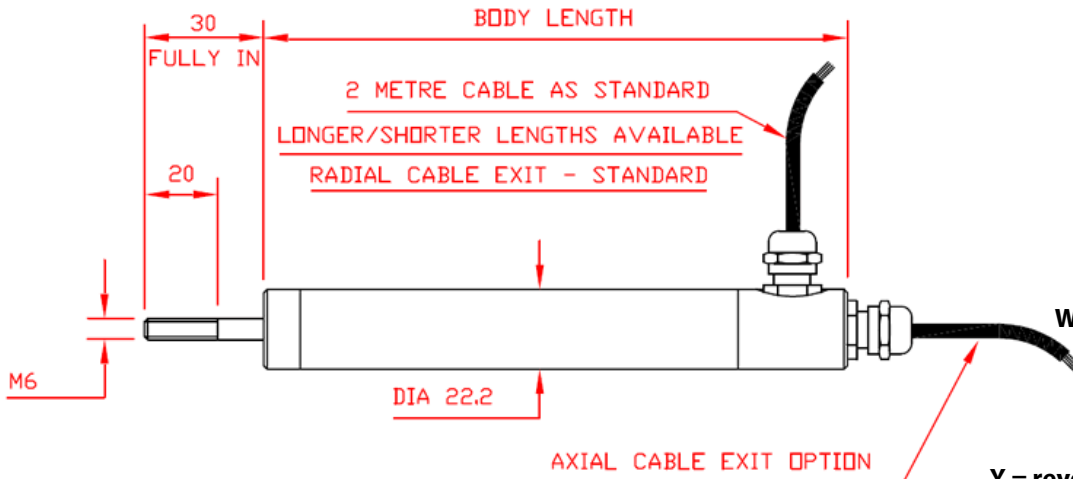
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**Dimensions DC Versions (mm) continued:**

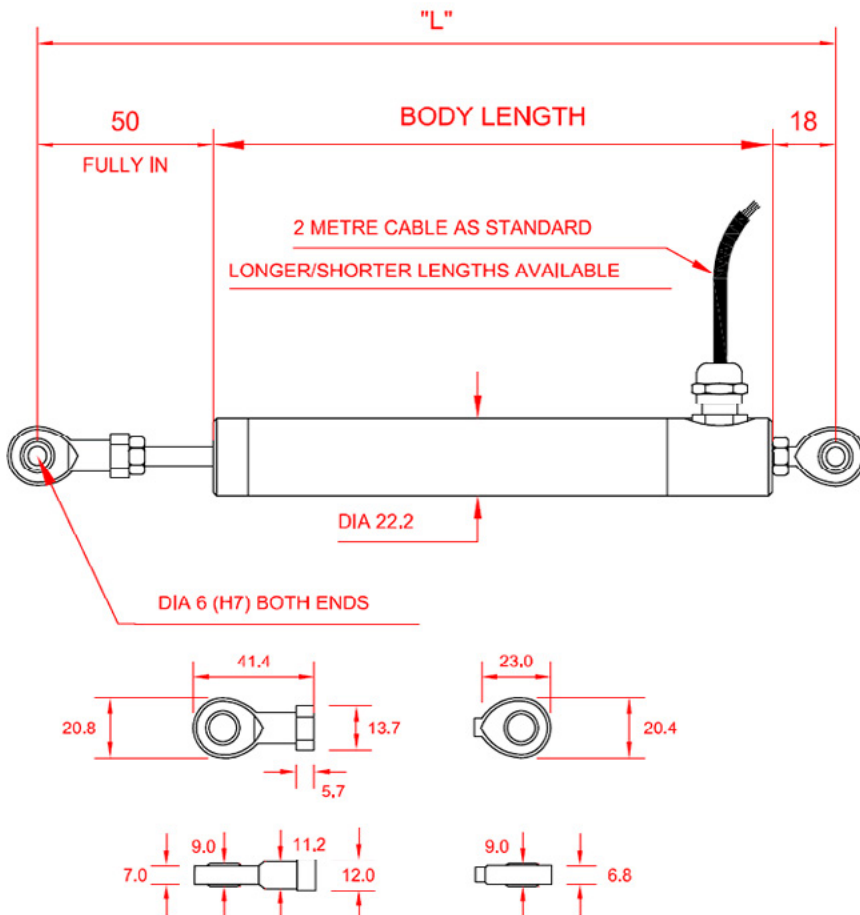


**Plain Core  
AML-IE Industrial  
DC Version  
(mm)**

**Options:**

- A = axial cable exit
- R = radial cable exit
- G = extension rod wiper
- W = waterproof IP68, with PU cable
- I = 4-20mA output
- U = 0-5V output
- U-10 = 0-10V output
- D = DC bipolar output
- Y = reverse output (e.g. 4mA fully in instead of default 20mA)
- Z = armoured hose
- 024 = increased linearity,  $\pm 0.25\%$

H & VH = high temperature options not available



**Option R M6 Rod Ends  
AML-IE Industrial  
DC Version with  
M6 Rod End Bearings  
(mm)**

**Options:**

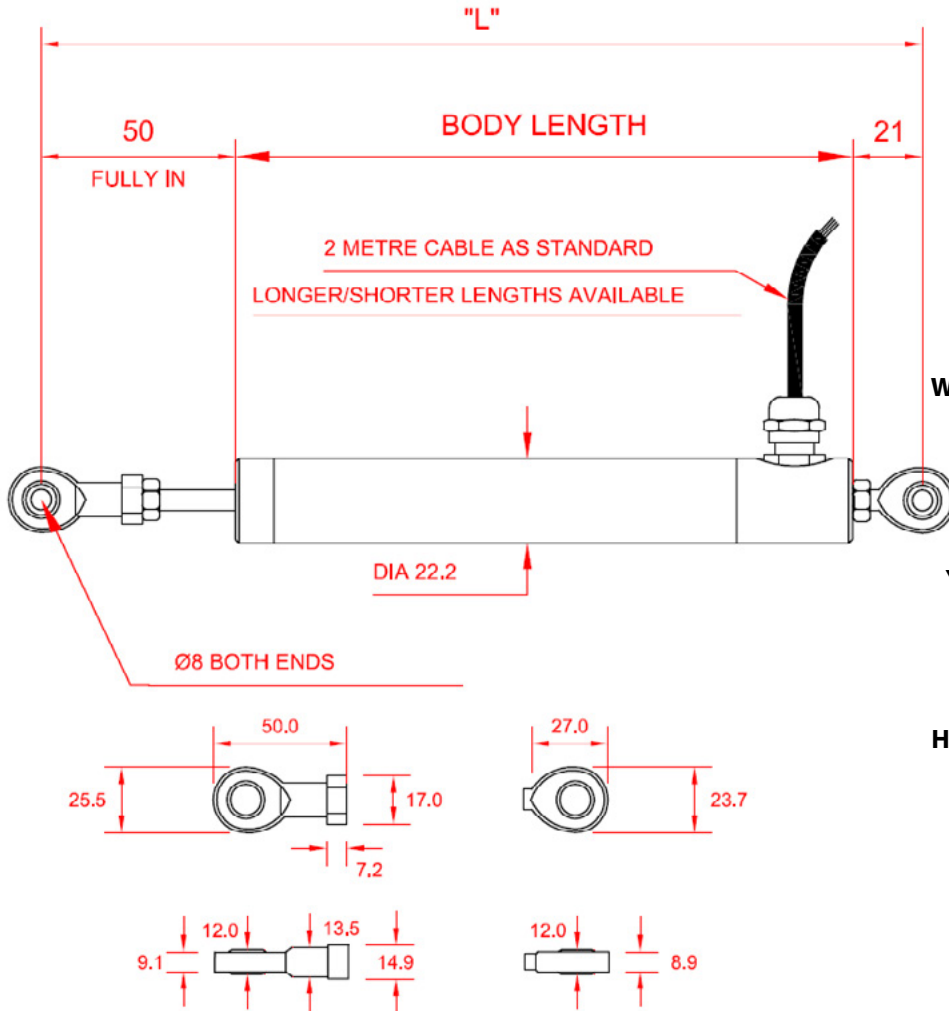
- R = radial cable exit only
- G = extension rod wiper
- W = waterproof IP68, with PU cable and stainless steel M6 rod end bearings
- I = 4-20mA output
- U = 0-5V output
- U-10 = 0-10V output
- D = DC bipolar output
- Y = reverse output (e.g. 4mA fully in instead of default 20mA)
- Z = armoured hose
- 024 = increased linearity,  $\pm 0.25\%$

H & VH = high temperature options not available





**Dimensions DC Versions (mm) continued:**

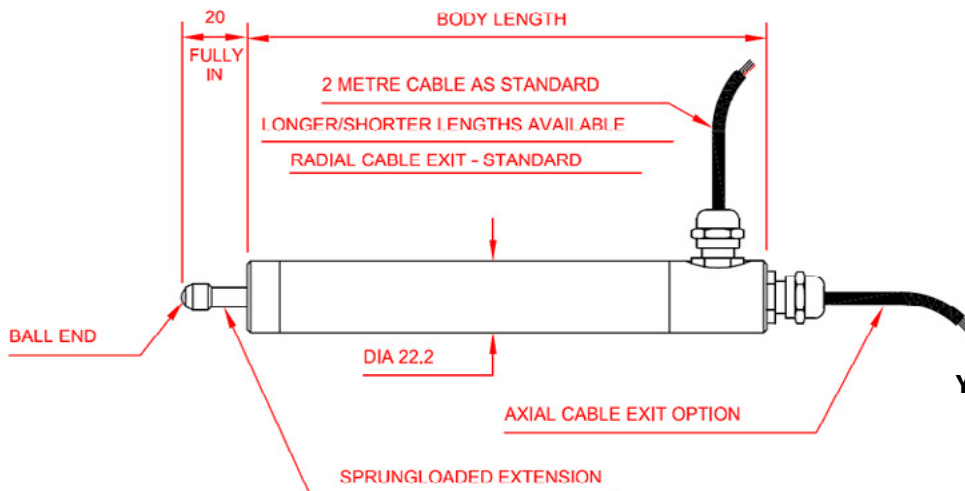


**Option R M8 Rod Ends  
AML-IE Industrial  
DC Version with  
M8 Rod End Bearings  
(mm)**

- Options:**
- R = radial cable exit only
  - G = extension rod wiper
  - W = waterproof IP68, with PU cable and stainless steel M8 rod end bearings
  - I = 4-20mA output
  - U = 0-5V output
  - U-10 = 0-10V output
  - D = DC bipolar output
  - Y = reverse output (e.g. 4mA fully in instead of default 20mA)
  - Z = armoured hose
  - 024 = increased linearity,  $\pm 0.25\%$

H & VH = high temperature options not available

**Option S  
AML-IE Industrial  
DC Version Sprung Loaded  
(mm)**



- Options:**
- R = radial cable exit
  - A = axial cable exit
  - G = extension rod wiper
  - W = waterproof IP68, with PU cable
  - I = 4-20mA output
  - U = 0-5V output
  - U-10 = 0-10V output
  - D = DC bipolar output
  - Y = reverse output (e.g. 4mA fully in instead of default 20mA)
  - Z = armoured hose
  - 024 = increased linearity,  $\pm 0.25\%$

H & VH = high temperature options not available



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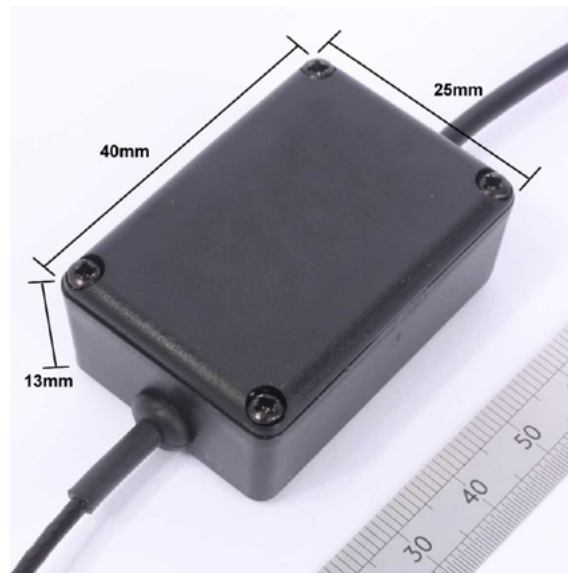
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## Dimensions DC Versions (mm) continued:

### Optional In-Line Amplifier Housing Dimensions:

Required for high temperature versions with conditioned output. Can also be used with any AC version to give a DC output when minimum LVDT body length is required.



## Associated Products:



[LVDT Amplifier / Signal Conditioner](#)



[In-Line LVDT Amplifier](#)



[Intuitive4-P Process Digital Indicator](#)



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## Ordering Codes:

| AML/IEU10+/-500mm-WR0A-0.2-000  | AML/IE | U10   | +/-500mm  | - | WR  | O | A | - | 0.2 | - | 000 |
|---|--------|-------|-----------|---|-----|---|---|---|-----|---|-----|
| <i>Example Code</i>   |        |       |           |   |     |   |   |   |     |   |     |
| <b>Product Family</b>   |        |       |           |   |     |   |   |   |     |   |     |
| AML/IE  | AML/IE |       |           |   |     |   |   |   |     |   |     |
| <b>Electrical Output</b>  |        |       |           |   |     |   |   |   |     |   |     |
| Blank = 6-wire AC mV/V  |        | Blank |           |   |     |   |   |   |     |   |     |
| J = 4-wire AC mV/V  |        | J     |           |   |     |   |   |   |     |   |     |
| U = 0-5Vdc  |        | U     |           |   |     |   |   |   |     |   |     |
| U10 = 0-10Vdc   |        | U10   |           |   |     |   |   |   |     |   |     |
| I = 4-20mA  |        | I     |           |   |     |   |   |   |     |   |     |
| D = ±2.5Vdc (12Vdc regulated supply required)   |        | D     |           |   |     |   |   |   |     |   |     |
| <b>Stroke Range</b>   |        |       |           |   |     |   |   |   |     |   |     |
| +/-0.5mm (0-1mm)  |        |       | +/-0.5mm  |   |     |   |   |   |     |   |     |
| +/-2.5mm (0-5mm)  |        |       | +/-2.5mm  |   |     |   |   |   |     |   |     |
| +/-5mm (0-10mm)   |        |       | +/-5mm    |   |     |   |   |   |     |   |     |
| +/-10mm (0-20mm)  |        |       | +/-10mm   |   |     |   |   |   |     |   |     |
| +/-12.5mm (0-25mm)  |        |       | +/-12.5mm |   |     |   |   |   |     |   |     |
| +/-15mm (0-30mm)  |        |       | +/-15mm   |   |     |   |   |   |     |   |     |
| +/-25mm (0-50mm)  |        |       | +/-25mm   |   |     |   |   |   |     |   |     |
| +/-50mm (0-100mm)   |        |       | +/-50mm   |   |     |   |   |   |     |   |     |
| +/-75mm (0-150mm)   |        |       | +/-75mm   |   |     |   |   |   |     |   |     |
| +/-100mm (0-200mm)  |        |       | +/-100mm  |   |     |   |   |   |     |   |     |
| +/-125mm (0-250mm)  |        |       | +/-125mm  |   |     |   |   |   |     |   |     |
| +/-150mm (0-300mm)  |        |       | +/-150mm  |   |     |   |   |   |     |   |     |
| +/-175mm (0-350mm)  |        |       | +/-175mm  |   |     |   |   |   |     |   |     |
| +/-200mm (0-400mm)  |        |       | +/-200mm  |   |     |   |   |   |     |   |     |
| +/-250mm (0-500mm)  |        |       | +/-250mm  |   |     |   |   |   |     |   |     |
| +/-300mm (0-600mm)  |        |       | +/-300mm  |   |     |   |   |   |     |   |     |
| +/-400mm (0-800mm)  |        |       | +/-400mm  |   |     |   |   |   |     |   |     |
| +/-500mm (0-1000mm)   |        |       | +/-500mm  |   |     |   |   |   |     |   |     |
| +/-550mm (0-1100mm)   |        |       | +/-550mm  |   |     |   |   |   |     |   |     |
| <b>Mechanical Configuration</b>   |        |       |           |   |     |   |   |   |     |   |     |
| G = Guided Core & Extension Rod   |        |       |           |   | G   |   |   |   |     |   |     |
| S = Spring Loaded Core & Extension Rod with Ball-Tip (±125mm max range)                                     |        |       |           |   | S   |   |   |   |     |   |     |
| SW = IP68 Rated to 5bar/50m with Spring Loaded  |        |       |           |   | SW  |   |   |   |     |   |     |
| R = M6 Rod-End Bearings - Mild Steel (with Guided Core)   |        |       |           |   | R   |   |   |   |     |   |     |
| R8 = R8 Rod End Bearings - Mild Steel (with Guided Core)  |        |       |           |   | R8  |   |   |   |     |   |     |
| M8 = 8mm Core and Extension with M8 Male Thread   |        |       |           |   | M8  |   |   |   |     |   |     |
| H = 150°C High Temperature Version with Guided Core (DC output requires in-line amplifier @ 70°C max)       |        |       |           |   | H   |   |   |   |     |   |     |
| HR = 150°C High Temperature Version with SS M6 Rod-End Bearings   |        |       |           |   | HR  |   |   |   |     |   |     |
| HR8 = 150°C High Temperature Version with SS M8 Rod-End Bearings  |        |       |           |   | HR8 |   |   |   |     |   |     |
| VH = 200°C Very High Temperature Version with Guided Core (DC output requires in-line amplifier @ 70°C max) |        |       |           |   | VH  |   |   |   |     |   |     |
| VHR = 200°C Very High Temperature, SS M6 Rod End Bearings with Guided Core (AC output only)                 |        |       |           |   | VHR |   |   |   |     |   |     |



# APPLIED MEASUREMENTS LTD.

Transducer Specialists...

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| AML/IEU10+/-500mm-WROA-0.2-000   | AML/IE | U10 | +/-500mm | - | WR    | O | A | - | 0.2 | - | 000 |
|--|--------|-----|----------|---|-------|---|---|---|-----|---|-----|
| <i>Example Code</i>  |        |     |          |   |       |   |   |   |     |   |     |
| VHR8 = 200°C Very High Temperature Version SS M8 Rod End Bearings with Guided Core (DC output requires in-line amplifier @ 70°C max)   |        |     |          |   | VHR8  |   |   |   |     |   |     |
| W = IP68 Rated - Waterproof/Submersible to 5bar External Pressure (50 metres) with Guided Core + Extension   |        |     |          |   | W     |   |   |   |     |   |     |
| WR = IP68 Rated with SS M6 Rod-End Bearings - Waterproof/Submersible to 5bar External Pressure (50 metres)   |        |     |          |   | WR    |   |   |   |     |   |     |
| WR8 = IP68 Rated with SS M8 Rod-End Bearings - Waterproof/Submersible to 5bar External Pressure (50 metres)  |        |     |          |   | WR8   |   |   |   |     |   |     |
|  |        |     |          |   |       |   |   |   |     |   |     |
| <b>For the below configurations please speak to our technical team.</b>  |        |     |          |   |       |   |   |   |     |   |     |
| HS = 150°C High Temperature Version Spring Loaded Core & Extension Rod with Ball-Tip (±125mm max range) (DC output requires in-line amplifier @ 70°C max)  |        |     |          |   | HS    |   |   |   |     |   |     |
| HSW = IP68 Rated to 5bar/50m with Spring Loaded 150°C High Temperature Version Spring Loaded Core & Extension Rod with Ball-Tip (±125mm max range) (DC output requires in-line amplifier @ 70°C max)       |        |     |          |   | HSW   |   |   |   |     |   |     |
| VHS = 200°C Very High Temperature, Spring Loaded Core + Extension Rod with Ball Tip (±125mm max range) (AC output only)  |        |     |          |   | VHS   |   |   |   |     |   |     |
| VHSW = IP68 Rated to 5bar/50m with Spring Loaded 200°C Very High Temperature Version Spring Loaded Core & Extension Rod with Ball-Tip (±125mm max range) (DC output requires in-line amplifier @ 70°C max) |        |     |          |   | VHSW  |   |   |   |     |   |     |
| HRW = 150°C High Temperature, IP68 Rated with SS M6 Rod-End Bearings - Waterproof/Submersible to 5bar External Pressure (50 metres) (AC output only)   |        |     |          |   | HWR   |   |   |   |     |   |     |
| HR8W = 150°C High Temperature, IP68 Rated with SS M8 Rod-End Bearings - Waterproof/Submersible to 5bar External Pressure (50 metres) (AC output only)  |        |     |          |   | HWR8  |   |   |   |     |   |     |
| VHRW = 200°C Very High Temperature, IP68 Rated with SS M6 Rod-End Bearings - Waterproof/Submersible to 5bar External Pressure (50 metres) (AC output only)   |        |     |          |   | VHWR  |   |   |   |     |   |     |
| VHR8W = 200°C Very High Temperature, IP68 Rated with SS M8 Rod-End Bearings - Waterproof/Submersible to 5bar External Pressure (50 metres) (AC output only)  |        |     |          |   | VHWR8 |   |   |   |     |   |     |
|  |        |     |          |   |       |   |   |   |     |   |     |
| <b>Output Direction (only affects DC output versions)</b>  |        |     |          |   |       |   |   |   |     |   |     |
| 0 = Zero with core extended, Full Scale with core retracted  |        |     |          |   |       | 0 |   |   |     |   |     |
| Y = Full Scale with core extended, Zero with core retracted  |        |     |          |   |       | Y |   |   |     |   |     |
|  |        |     |          |   |       |   |   |   |     |   |     |
| <b>Cable Exit Direction</b>  |        |     |          |   |       |   |   |   |     |   |     |
| A = Axial (not available on rod-end bearing version)   |        |     |          |   |       |   | A |   |     |   |     |
| R = Radial   |        |     |          |   |       |   | R |   |     |   |     |
|  |        |     |          |   |       |   |   |   |     |   |     |
| <b>Cable Length (in metres)</b>  |        |     |          |   |       |   |   |   |     |   |     |
| 02 = 2 metres (standard)   |        |     |          |   |       |   |   |   | 02  |   |     |
| 0,2 = 0.2 metres   |        |     |          |   |       |   |   |   | 0,2 |   |     |
| 10 = 10 metres   |        |     |          |   |       |   |   |   | 10  |   |     |
| 02Z = 2 metres Armoured Hose   |        |     |          |   |       |   |   |   | 02Z |   |     |
| 10Z = 10 metres Armoured Hose  |        |     |          |   |       |   |   |   | 10Z |   |     |
|  |        |     |          |   |       |   |   |   |     |   |     |
| <b>Specials Code</b>   |        |     |          |   |       |   |   |   |     |   |     |
| 000 = No Special Requirements  |        |     |          |   |       |   |   |   |     |   | 000 |
| 024 = Improved ±0.25% accuracy   |        |     |          |   |       |   |   |   |     |   | 024 |
| 021 = Extension Rod Wiper  |        |     |          |   |       |   |   |   |     |   | 021 |