

Technical drawing of the TS/VS scale assembly, showing side and front views with dimensions in inches and millimeters.

Side View Dimensions:

- Overall scale length minimum = TRAVEL LENGTH + 258(10.2")
- 131(5.16")
- 118(4.65")
- 6.5(0.26")
- 28(1.1")/30(1.2")
- 22.5(0.89")
- 35.0(1.38")
- 53(2.1")

Front View Dimensions:

- 0.05 D
- 0.002 D
- 1
- 2
- 20.0(0.79")
- 38.75(1.53")
- 53.5(2.11")

Labels and Notes:

- Armoured cable $\varnothing 8.5(0.33")$ (min. internal bend radius 30(1.2"))
- LED for TS, VS variants only

Technical drawing of the NEWALL SHGTS sensor assembly, showing side and end views with dimensions and mounting details.

Side View Dimensions:

- Short pillar: 26(1")
- Long pillar: 38(1.5")
- fix both together for extended length of 64(2.5")
- Pillar end mounting points: M8 x 18 deep, C'Bore Ø8.4 x 5 deep
- MIN. 16(0.6")
- MAX. 54(2.1")
- 22.5(0.89")
- 118(4.65")
- 6.5(0.26")
- 11(0.43")
- 28.5(1.12")
- Ø15.2(0.6")

End View Details:

- Mountings "A": Ø5.5 THR'O & C'BORE Ø9.0 x 6 DEEP each side of housing to accept M5 cap head screws.
- Mounting "B": Ø5.5 THR'O & C'BORE Ø9.0 x 6 DEEP each side of housing to accept M5 cap head screws.
- Mounting "C": Ø5.5 THR'O & C'BORE Ø9.0 x 6 DEEP each side of housing to accept M5 cap head screws.

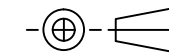
Assembly Labels:

- NEWALL
- SHGTS
- CE
- Newall Measurement Systems Ltd, UK

FOR FURTHER INFORMATION REFER TO INSTALLATION MANUAL

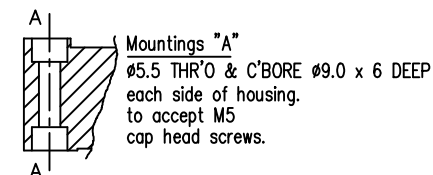
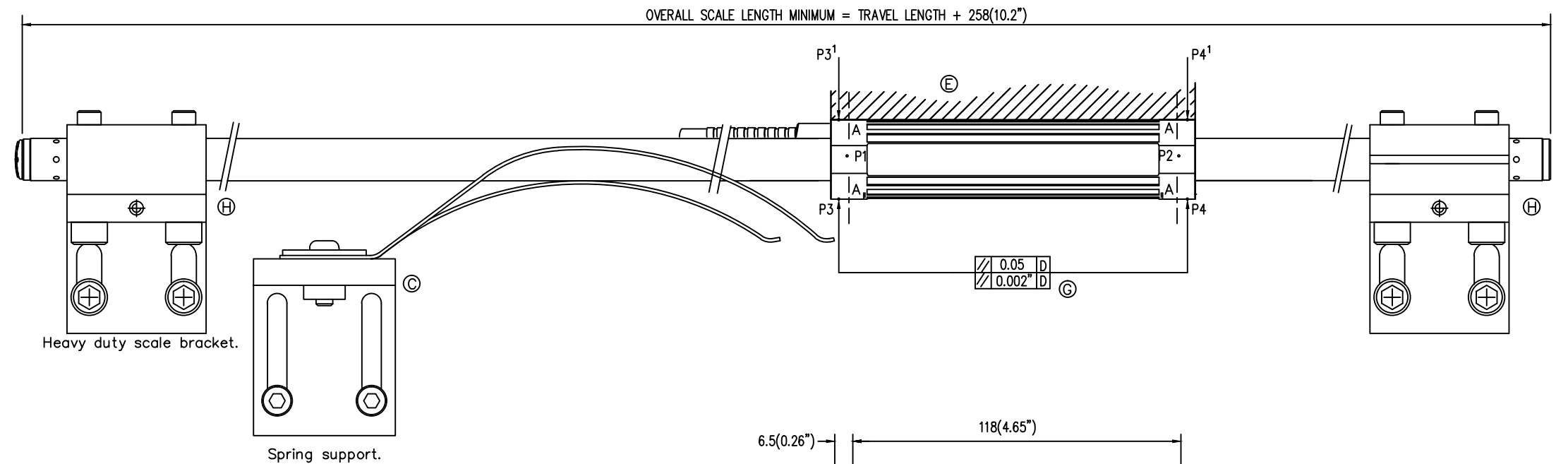
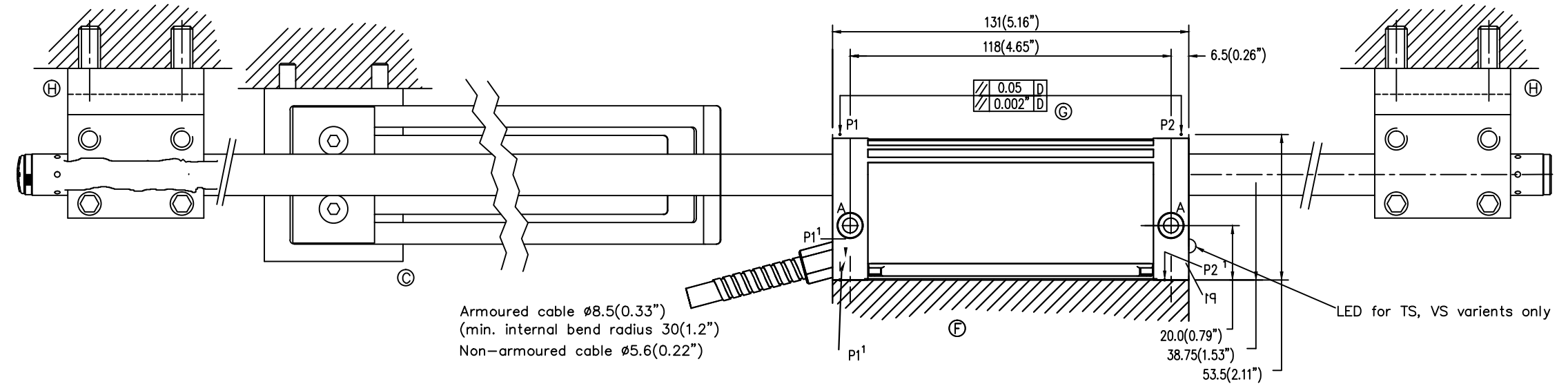
								TITLE				DIMENSIONAL DETAILS for				MATERIAL/ FINISH				SCALE		UNLESS OTHERWISE TOLERANCES: - 0 DECIMAL PLACES ±0.5											
												SHG-TT, SHG-PV, SHG-TS, SHG-VP and SHG-VS Encoders (<100")								1=1		STATED :- 1 DECIMAL PLACE ±0.2											
																						2 DECIMAL PLACES± 0.1											
																						ANGULAR ±1"											
								DRAWN				C.WHITMORE		25-11-14		Leicester NEWALL England				THIS DRAWING IS THE PROPERTY OF NEWALL MEASUREMENT SYSTEMS LIMITED. THE INFORMATION THEREON MAY NOT BE COPIED OR USED WITHOUT WRITTEN PERMISSION				SHEET 1 OF 1		DRAWING NUMBER		316-87290		REV. ISS.		0	
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DO NOT SCALE



THIRD ANGLE
PROJECTION

IF IN DOUBT ASK



- A – Encoder head mounting points 2off for M5 cap head screws (clearance holes through).
- B – Encoder head mounting points 2off for M5 screws (thread depth 12).
- C – Spring support.
- D – Machine Guideway.
- E/F – Encoder head mounting faces.
- G – Indicating parallel alignment required between encoder head and axis travel.
- H – Scale end mounting points to machine bed.
- P – Installation alignment points.

SPRING SUPPORTS ARE INTENDED FOR USE WHERE THE READER HEAD IS MOVING AND THE SCALE TUBE IS STATIONARY.
REFER TO INSTALLATION MANUAL FOR RECOMMENDED NUMBER AND POSITONAL DETAILS OF SPRING SUPPORTS

DIMENSIONS – mm (ins")

FOR FURTHER INFORMATION REFER TO INSTALLATION MANUAL

								TITLE DIMENSIONAL DETAILS for SHG-TT, SHG-PV, SHG-TS, SHG-VP and SHG-VS series encoders (>100")				MATERIAL/ FINISH				SCALE (ON A1)		UNLESS OTHERWISE STATED :- DIMENSIONS ARE IN MM.				TOLERANCES: - 0 DECIMAL PLACES ±0.5 1 DECIMAL PLACE ±0.2 2 DECIMAL PLACES ±0.1 ANGULAR ±1°							
								DRAWN C. WHITMORE 25-11-14				Leicester NEWALL England				THIS DRAWING IS THE PROPERTY OF NEWALL MEASUREMENT SYSTEMS LIMITED. THE INFORMATION THEREON MAY NOT BE COPIED OR USED WITHOUT WRITTEN PERMISSION				SHEET 1 OF 1		DRAWING NUMBER		316-87295		REV. ISS.		O	
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