



**DETAIL A VIEW**  
 IN EXISTING LAYOUT THIS ASSEMBLY IS APPLIED TO LONG DETECTION ROD. ITEMS 3, 5&6 ARE CHANGED TO SUIT SHORT DETECTION ROD MOUNTED IN 3RD HOLE ON SWITCH. DETAIL SEE M02-310. THE ARRANGEMENT SHOWN IN M02-310 WILL BE USED FOR SHORT & LONG DETECTION RODS IN NEW LAYOUT.

DESCRIPTION	"X"	"Y"	RAILCORP PT No	STOCK CODE
SHORT ROD 84M DETECTOR	900	125	M02648A	2061869
LONG ROD 84M DETECTOR	1900	125	M02648B	2062784

NOTE: 1. ROD FITS 84M ON CONVENTIONAL & TANGENTIAL POINTS  
 2. SOME SHORT RODS WILL ONLY HAVE X=690 IN SUCH CASES CUT OFF EXCESS THREAD LENGTH

\*NOTE:  
 - MATERIAL: Ø20 ROD AS3679-250  
 - FOR ROD ROCOL RUST SHIELD  
 - FOR THREADS 1 COAT RED ZINC PHOSPHATE

- NOTES
- 1) ALL WELDS SHALL BE TO AS1554.1 SP THE WELD METAL SHALL HAVE A MINIMUM NOMINAL TENSILE STRENGTH. FUW OF 450MPa
  - 2) HOT DIP GALVANISING SHALL BE TO AS1650 MIN. COATING SHALL BE Z430 FOR SHEET PRODUCTS OR 450g/m<sup>2</sup> FOR OTHER PRODUCTS
  - 3) ZINC PLATING SHALL BE TO AS1769 AS APPROPRIATE. Fe/Zn 12Cc
  - 4) ALL SURFACES TO BE PAINTED SHALL BE DEGREASED DESCALED AND PREPARED IN ACCORDANCE WITH THE PAINT MANUFACTURER'S RECOMMENDATIONS EACH COAT OF PAINT SHALL HAVE A MINIMUM DRY FILM THICKNESS OF 38µm
  - 5) PROPRIETARY ITEMS SHALL BE MANUFACTURED TO RELEVANT AUSTRALIAN STANDARDS
  - 6) THE MANUFACTURER OR ITS SUPPLIERS SHALL KEEP AND HAVE AVAILABLE TEST CERTIFICATES FOR MATERIALS. HEAT TREATMENT. HARDENING AND SURFACE COATINGS
  - 7) PARTS SHALL BE MARKED WHERE SHOWN WITH PART NUMBER AND XXXMMYY WHERE XXX=MANUFACTURER'S MARK AND MMY=MONTH AND YEAR OF MANUFACTURE
  - 8) WHERE AN ASSEMBLY IS ORDERED THE MANUFACTURER SHALL SUPPLY IT COMPLETE AND FULLY ASSEMBLED AS SHOWN UNLESS REQUESTED OTHERWISE THE ASSEMBLY SHALL HAVE A WEATHERPROOF TAG ATTACHED. MARKED WITH THE ASSEMBLY PART NUMBER AND XXXMMYY AS ABOVE
  - 9) THREADED SURFACES NOT PROTECTED BY PLATING SHALL BE COATED WITH ROCOL RUSTSHIELD OR AN EQUIVALENT ALTERNATIVE
  - 10) BEARING SURFACES NOT PROTECTED BY PLATING SHALL BE COATED WITH ROCOL A S SPRAY OR AN EQUIVALENT ALTERNATIVE

ITEM NO.	PART NUMBER	DESCRIPTION (FOR LONG DETECTION ROD)	QTY.	MATERIAL	FINISH	DWG REF	STOCK CODE
1	M02648A/B	SHORT/LONG DETECTION ROD FOR INBEARER	1	AS3679-250	NOTE *	M02-648	SEE TABLE ABOVE
2	SI20C SKF	ROD END 16MM ASSEMBLY	1				1785286
3	0284 5302	BOLT M20 x 90 HEX HEAD	1	Gr4.6 AS1111	ZINC PLATED		BLACKWOODS
4	0209 3905	M20 X 2.5 NYLOC NUT	1	DIN 985	ZINC PLATED		1439496
5	M02282G	LOWER SLEEVE	1	STAINLESS STEEL Gr304		M02-282/4	1865492
6	M02166E	INSULATION FERRULE	2	NYLON	NATURAL	M02-166	2062974
7	M02282H	UPPER SLEEVE	1	STAINLESS STEEL Gr304		M02-282/4	1865500
8	M02282J	STEP WASHER	1	STAINLESS STEEL Gr304		M02-282/4	1865484
9	0290 1295	HEX NUT M20 X 1.5	1	STEEL	ZINC PLATED		2089639
10	0374 7409	HEX NUT M20X2.5	4	STEEL	ZINC PLATED		1737477
11	4335319101&2	M20 CONCAVE/CONVEX WASHER (IF NOT SUPPLIED WITH POINT MACHINE)	2 PAIRS	STAINLESS STEEL Gr316		43353191or (M02-669)	WESTINGHOUSE

6	DRAWING UPDATED TO SOLIDWORKS FORMAT	23/3/12	C.Y.L.	<i>[Signature]</i>	<i>[Signature]</i>	GENERAL TOLERANCES LINEAR <1000 +0.5mm >1000 +3mm RADIAL <500 +0.25mm >500 +1.5mm ANGULAR +30°		 Chief Engineer's Division	TITLE <b>NEUTRAL AXIS STYLE DETECTOR RODS ON SCARFED CONCRETE BEAMS</b>				
5	ITEM 12 IS DELETED. ITEMS 9&10 PART NUMBER UPDATED. ITEM 4, 5 9&10 STOCK CODE UPDATED	26/10/11	C.Y.L.	C.Y.L.	R.L.F.	P.S.	SIGNAL DESIGN EDMS: 5G 0178909		DESIGNED R.F.	DRAWN H.E.	REVIEWED R.L.F.	VERIFIED A.J.N.	APPROVED R.W.A.
4	ITEM 3 IS CHANGE TO M20X90 COUNTERSUNK BOLT. ITEMS 5&6 ARE CHANGED FOR SHORT DETECTION ROD MOUNTED IN 3RD HOLE ON SWITCH. REFER TO M02-310 FOR SL DETECTION RODS IN NEW LAYOUT	30/6/11	C.Y.L.	C.Y.L.	R.L.F.	R.W.A.		DATE 13/02/2006	SCALE N. T. S.	DRG. No M02-648	REV. No 6	A3	

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ALL DIMENSIONS IN MILLIMETRES

AS 1100 THIRD ANGLE PROJECTION

**CAD DO NOT AMEND MANUALLY**