

# Starpoint 16RM Reel Mechanism

## Product Summary

### Description

The 16RM is a low cost, modular Reel Mechanism with stepper motor drive. The reel tape is mounted in a single sided reel drum and is a simple push-in friction fit. An integrated moulding with motor, position detection and illumination allows easy adjustment of the lamp array angle. This patented feature simplifies both manufacturing and servicing. The 16RM is available with 3 different reel drum widths from 66mm to 100mm, quick release mounting feet allow easy installation and removal.

### Electrical Outline

The 16RM is available with either 48 step 12vdc or 24vdc & 100 step 24vdc motors. Connection is made to the unit with a 15 way connector. A photo optic detector provides position information of the reel drum and band symbols. Dependant on the reel band width, either 3 or 6 lamps are available for rear illumination of the reel band symbols. The lamps are available with an optional integral diode in circuit, to allow for Matrix connection and wire harness savings (request the matrix information sheet for more data). Further more detailed information is available in the 16RM Technical Information Pack which can be requested when ordering samples.

### Mechanical Outline

Dimensional information is shown on the reverse of this Product Summary. The single sided reel drum has a major benefit in that it simplifies the selection of reel drum, so that the support bars do not interfere with the symbol illumination, i.e. conventional reel drums are selected for a 5 bar drum for 20 & 25 symbols and a 8 bar drum for 12, 16 & 24. The rear illumination lamp array angle can be adjusted between 0° to 180° with only a small gap for mounting requirements, it is recommended that this adjustment is factory set. The dimensions for fitting the quick release mounting feet are detailed on the reverse of this sheet. Fixing for the reel band onto the reel drum is by a combination of insertion into the single sided reel drum slot and double sided tape.

### Sample Ordering

When requesting samples a brief specification is required which identifies the basic options required.

<b>Motor Type</b>	48 step 12vdc	48 step 24vdc	100 step 24vdc		
<b>Reel Drum Width</b>	66mm	79.5mm	100mm		
<b>Lamp Array Angle</b>	0° to + 180°				
<b>No of Symbols</b>	12	16	20	24	25
<b>Are integral diode required with the lamps?</b>					

If you require a sample please fax Starpoint on +44 (0)20 8391 7760 with your required options from the above and intended application. The sample will be sent complete with Technical Information giving applications information and details of how to specify your exact product requirement in the future.

# Starpoint 16RM Reel Mechanism Dimensional Information

'A'	'B'	'C'	'D'	'E'	'F'	'G'
231	66	87.5	51.25	84.5	251.5	64.2
231	79.5	101	58	98	251.5	70.9
231	100	121	68	118	251.5	80.6

