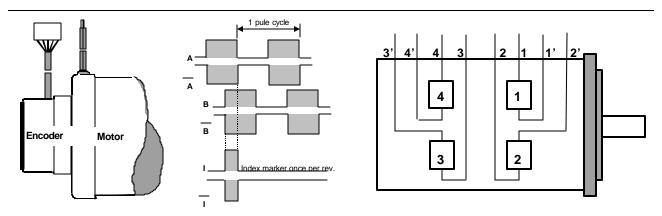
Motor Types	Lead or terminal identification								
Permanent Motor type	1	1'	2'	2	3	3'	4'	4	
N82101 M82101	Orange	Red		Yellow	Brown	Green		Black	
M82201	Yellow	Red		Orange	Brown	Green		Black	
ID 32 Series	Grey	Red		Yellow	Yellow	Red		Grey	
ID 311	Grey	Red	Black	Yellow	Yellow	Black	Red	Grey	
ID 314	1	1'/2'		2	3	3'.	/4'	4	
ID 316*	1	1'/2'		2	3	3'/4'		4	
*Except 9904 112 31	206 which is	a bi-polar	motor and i	s listed separatel	y below				
ID 35 Series	1	1'/2'		2	3	3'/4'		4	
L 82401 42M100	Yellow	Red		Orange	Brown	Green		Black	
MV 82801	Grey	Red		Yellow	Yellow	Red		Grey	
1415 Series	1	1 Internal		2	3	Internal		4	
Bi-Polar					<u>, </u>				
ID 31206	1	Internal		2	3	Internal		4	
Linear Actuator									
921Series	Yellow	Red		Orange	Black	Green		Brown	
922Series 924Series	Yellow	Red		Black	Orange	Red		Brown	
Hybrid Types		'			<u>'</u>	'			
17HS Series									
17HS	Red	Black		Red / white	Green / White	White		Green	
17HS 006 mk3	Red	Black		Red / white	Green	White		Green / white	
17HS 012	Blue	White		Orange	Yellow	Black		Red	
23HS & 34HS Series									
23HS-030	Red	Black		Red / White	Green	White		Green / white	
23HS 1 23HS 2	Red	Black	White	Red / white	Green / white	Black /	Orange	Green	
23HS 3	Or					white			
34HS 1 34HS 2		Red /	Yellow			Black /	Orange /	_	
34HS 3	Red	white	/ white	Yellow	Black	white	white	Orange	
Rare Earth Magnet Stepper Motors									
23HS 102X	Red	Black	White	Red / white	Green / white	Black / white	Orange	Green	
23HSX 1 23HSX 2 23HSX 3	Red	Red / white	Yellow / white	Yellow	Orange	Orange / white	Brown / white	Brown	
34HSX 1 34HSX 2 34HSX 3	Red	Red / white	Yellow / white	Yellow	Black	Black / white	Orange / white	Orange	



Motor & Encoder Wiring Instructions



Lead Colours		Mclennan System SM9000 Series Connector & Pin Configurations					
		15 Way D	8 Way Ringlock	12 Way Ringlock			
					Heidenhain		
Red	5v Supply Voltage	9	A	A	12		
Black	0v	2	В	В	10		
White	Channel A	11	С	С	5		
Green	Channel B	12	D	D	8		
Yellow	Channel A-	3	Е	Е	6		
Blue	Channel B-	4	F	F	1		
Orange	Channel I	13	G Not connected	G	3		
Brown	Channel I-	5	H Not connected	Н	4		

-NC

GND

Pin 2

Pin 1

Cl...T series incremental encoder

Suitable Connectors

Channel A Pin 3 -Supply Pin 4 -Channel B Pin 5

Manufacturer type

AMP 103686-4

640442-5

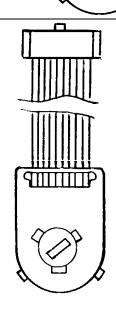
BERG 65801-034 Molex 2695 with

2759 terminals

Cl...L series incremental encoder

Suitable mating **Connectors**

RS 471 - 109 471 - 020 482 - 115 482 - 193



2 00000 10				
No	Parameter			
1	NC			
3	Vcc(+5v)			
	GND			
4	NC			
5	A-			
6	A			
7	B-			
8	В			
9	I- (Index)			
10	I (Index)			

