

**Encoders - Incremental - continued**

**EC Series Digital Contacting Encoder - continued**

Cycles Per Revolution	Detents	Mfrs List No.	Order Code
6	24	ECW0J-B24-AC0006	<b>109-111</b>
24	24	ECW1J-B24-AC0024	<b>120-0080</b>

207187/406088

	Order Code	Price Each			
		1+	25+	50+	100+
Encoder, 6 cycles	<b>109-111</b>	310.00	240.00	197.00	177.00
Encoder, 24 cycles	<b>120-0080</b>	310.00	240.00	197.00	166.00
PCB mounting bracket	<b>219-113</b>	26.00	20.00	19.00	18.00

**Motion Sensors**

**Stopped Motion Monitor - ROTASTOP3**



Self-contained



- Self-contained, no moving parts
- Universal voltage, two wire operation
- Simple, low-cost installation
- No contact with moving parts

L=95, Dia.=M18 (overall)

The ROTASTOP SU1MZ is ideal for monitoring chain- or gear-driven machinery such as gearbox drives, screw conveyors etc. but is suitable for almost any application where stoppage detection is needed.

Supply	24 to 240V ac/dc	Target	18mm dia. target for Maximum range
Ambient temperature	-15°C to +60°C	Time delay	4 sec.
Operating speed	15 to 3600 ppm	Start up delay	4 sec.
Protection	IP65	Cable	2 core, PVC sheathed, 2m length
Output	Normally closed When running	Indication	LED indication of input plused and output energised
Output rating	1.6mA min, 200mA max. (volt drop 8V)	Enclosure	Moulded polycarbonate
Operating distance	8mm ferrous metal		

212318

Mfrs. List No.	Order Code	1+	5+	10+
SU1MZ(A)	<b>705-9220</b>	7,081.00	6,726.00	6,373.00

**Proximity Switches - Magnetic**

**Reed, Plastic Housing**



Miniature



- Magnetic proximity switch with hermetically sealed contacts
  - Suitable for position, level sensing and security/anti-tamper
  - Contacts closed with magnet present
  - Slotted holes for easy fitting and alignment
  - Compact housing
  - Good protection in harsh environments up to IP65
- Applications**
- Process control systems
  - Intruder alarm, limit and proximity applications

Switch: 20 x 15 x 7  
Actuator: 20 x 15 x 7  
Fixing centres=10 (slots 6 x 3.3)

Switch contact operates when the magnet actuator moves in close proximity to the switch, typically 5mm.

Contacts	SPNO (Form A)	Switching distance, min.	5mm
Switching voltage, max.	100V ac	Operating temperature	-5°C to 70°C
Switching current, max.	0.5A	Case material	ABS
Switching capacity, resistive	6VA	Cable length	1m, PVC insulated
Contact resistance, max.	150mΩ		

212399

Mfrs. List No.	Order Code	1+	50+	200+
MMPSA 240/100	<b>117-3767</b>	648.00	491.00	393.00
MMPSM	<b>117-3768</b>	298.00	230.00	185.00

**Reed, Threaded Barrel**



- 730-208:** L=28, Ø=M6
  - 732-734:** L=50, Ø=M12
  - 732-746:** L=90, Ø=M18
  - 607-230:** L=19, Ø=6
  - 732-758:** L=30, Ø=10
  - 732-771:** L=40, Ø=12.5
  - 732-760:** L=50, Ø=M12
  - 732-783:** L=50, Ø=M18
- Cable L=300 (all types)

- Threaded barrel housings for easy fitting and adjustment
- High switching capacity - up to 60VA and 120VA
- Suitable for a wide range of position sensing applications

Barrel size	M6	M12	M18
Contacts	SPNO (form A)	SPNO (form A)	SPNO (form A)
Switching voltage, max.	470Vac	230Vac	1500Vac
Switching current, max.	0.5A	3A	3A
Switching capacity, resistive	10VA max.	60VA max.	120VA max.
Contact resistance, max.	150mΩ	80mΩ	80mΩ
Switching distance, min	5 mm	8 mm	15 mm
Operating temperature		-20°C to 85°C	
Case material	Brass, nickel plated		
Order Code	730-208	732-734	732-746

212356

Switches	Mfrs. List No.	Order Code	1+	25+	100+	250+
M6 threaded	PTA470/30	<b>730-208</b>	1,116.00	950.00	817.00	751.00
M12 threaded	PTA230/30.	<b>732-734</b>	1,713.00	1,458.00	1,254.00	1,152.00
M18 threaded	PTA1500/30.	<b>732-746</b>	2,337.00	1,990.00	1,710.00	1,573.00

  

Magnets	Mfrs. List No.	Order Code	1+	25+	100+	250+
6mm dia	PRM	<b>607-230</b>	65.00	57.00	49.00	41.00
12mm dia	PRMM	<b>732-758</b>	247.00	214.00	184.00	169.00
M12 threaded	PTM12	<b>732-760</b>	1,285.00	1,183.00	1,031.00	864.00
18mm dia.	PRNM	<b>732-771</b>	384.00	332.00	286.00	263.00
M18 threaded	PTM18	<b>732-783</b>	1,624.00	1,408.00	1,211.00	1,182.00

**Magnets - High Strength Discs**

Miniature, Nickel Plated



- Disc magnets made from strongest permanent magnet material
- Exceptional magnetic strength from small size
- All magnets nickel plated to reduce the onset of corrosion when used under normal conditions
- Suitable for use at temperatures up to 120°C
- Ideal for proximity sensor triggering or biasing where space is a premium

Distance (mm) at which magnets measure 1000 gauss	M1219-1=4.1, M1219-2=2.2, M1219-3=1.8, M1219-4=1.2, M1219-5=0.6
Surface flux measurement (gauss)	M1219-1=1500, M1219-2=2500, M1219-3=3200, M1219-4=2500, M1219-5=3500
Magnet material	Neodymium Iron Boron
Grade/Energy density	Grade N30H, max. energy density 30 MGOe (M1219-4 Grade N35H, energy density 35 MGOe)
Operating temperature	120°C max.

Note: M1219-4 has north-seeking pole identified with a dimple

Mfrs. List No.	M1219-1=723-0345, M1219-2=723-0357,	M1219-3=723-0369, M1219-4=723-0370,	M1219-5=723-0382
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212390/406096

Size (mm)	Order Code	1+	25+	100+	250+	+
Dia.=3, W=1	<b>723-0345</b>	44.00	38.00	33.00	28.00	--
Dia.=3, W=2	<b>723-0357</b>	48.00	42.00	36.00	30.00	--
Dia.=4, W=3	<b>723-0369</b>	57.00	49.00	42.00	36.00	--
Dia.=6, W=2	<b>723-0370</b>	44.00	38.00	33.00	28.00	--
Dia.=10, W=5	<b>723-0382</b>	54.00	47.00	40.00	34.00	--

**Reed, Metal Housing**



Standard switch: 79.5 x 19.3 x 9.8, Standard actuator: 38.1 x 25.4 x 9.8, Miniature switch: 38.3 x 12.7 x 7.7, Miniature actuator: 38.3 x 12.7 x 7.7, Fixing centres=50 (slots 14 x 4.7) Fixing centres=28 (slots 14 x 4.7) Fixing centres=25 (hole dia 3.1) Fixing centres=25 (hole dia 3.1)

- Magnetically operated reed proximity switches encapsulated in pressure die castings with a blue powder coated finish
- Solid construction gives protection in harsh environments, IP64 rating
- Suitable for many applications with resistive loads
- Intruder alarm and limit switch, micro-switch and proximity switch applications
- Normally open or changeover contacts available

Connection is by integral PVC cable, 0.5m for miniature and 0.7m length for standard switches.