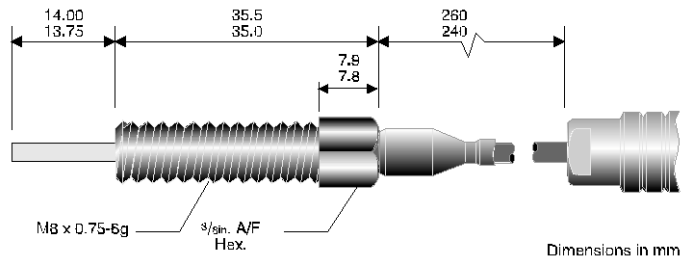


Leaffield

Engineering Limited



PROTRACTOR 0332000

GENERAL DATA

Stroke	13.75mm min. to 14.00mm max.
Piston diameter	3.3mm max.
Weight	50g
Maximum tightening torque	1.5Nm
Materials	Stainless steel body, stainless steel piston
Fitted connector type (Lemo)	Straight plug (FGG.OK.302.CLAC35Z)
Cable type	Screened/jacketed, twisted pair
Operating temperature	-40 °C to +60 °C (12 Months Max.)
Life (20°C)	15 years
HSE classification	Non-explosive
Transport	Normal parcel post

Designed to provide a degree of ingress protection (IP64) i.e. protection from splashed water and dust.

OPERATION

On firing, the piston will actuate at high velocity. There is no release of gas and no fragmentation.

PERFORMANCE

Guaranteed minimum work output	6.0J (T.B.C)
Typical function time	5ms
Available thrust (start of stroke)	2.0kN
Available thrust (end of stroke)	0.4kN

ELECTRICAL CHARACTERISTICS

Circuit resistance	1.85 ±0.55Ω
Maximum no fire current	0.2A
Recommended fire current	0.9A
Maximum test current	0.01A
Insulation	>100MΩ at 100V DC

PRODUCT SAFETY DATA SHEET

Ref N°. 1091

Sheet 1 of 3

Ref N°. 1

Issue Date: 08 December 2003

1. PRODUCT NOMENCLATURE

PROTRACTOR 0332000

2. USES

Used to lock or release a linear or rotary device.

3. HAZARDOUS INGREDIENTS

<u>Material</u>	<u>Hazard</u>	<u>Nominal Mass Per Unit</u>
PROPELLANT	Deflagration	30 mg max.

Note: Deflagration effects are totally contained within the body.

4. PHYSICAL PROPERTIES: CHEMICAL PROPERTIES, SENSITIVENESS CHARACTERISTICS

Physical Properties

Appearance Stainless Steel body and protracting shaft.
 Hazardous material contained within body.

Chemical Properties

Incompatible with acids and alkalis.

Sensitiveness Characteristics

Sensitive to heat, electrical current, electrostatic discharge, any of which may cause premature operation.

Conditions to avoid:

- Open flame and prolonged exposure to temperatures above 125°C.
- Electric spark or charge across firing circuit pins exceeding the specified no-fire current.

5. HEALTH HAZARDS

Precautions

Slight hazard may result if an attempt is made to tamper with or dismantle these devices before or after operation. Slight hazard resulting from inadvertent operation caused by rapid movement of protracting shaft.

6. FIRE AND EXPLOSION

These devices will operate in the presence of excessive heat, typically above 125°.

Hazardous products of decomposition: None. No outgassing produced.

7. STORAGE PRECAUTIONS

Store in original packaging in well ventilated, dry store.

Storage life in original packaging is 15 years under ideal temperature conditions (20°C).

8. TRANSPORT, PACKAGING AND LABELLING

These items are classified non-explosive and as such no special precautions are required for transport, packaging and labelling. Transport is by normal parcel post.

9. PROTECTION INFORMATION

Eye protection during installation or inspection.

10. DISPOSAL INSTRUCTIONS

Used or life expired devices, may be returned to Leaffield Engineering Limited for disposal.

11. EMERGENCY ACTION

Fire represents the principal risk to safety due to the likelihood of operation. If possible and without risk to safety the devices should be removed from the immediate location of a fire.

If the packaging is burning, do not attempt to fight fire.

Call emergency services. Evacuate the immediate area.

12. ADDITIONAL INFORMATION

Refer to Leaffield Engineering Limited

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