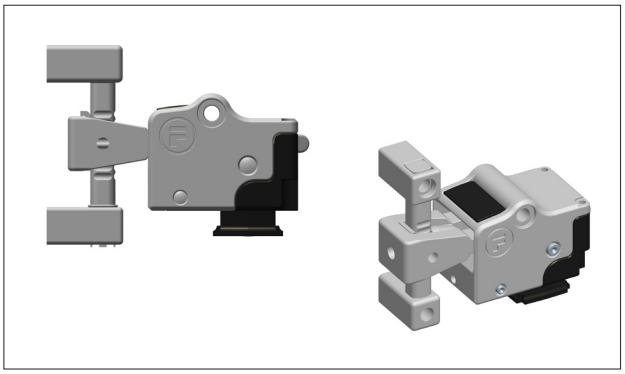
TA2T6SLC11 / TA2T6SL111
TA2T6SL211 / TA2T6SL411

Datasheet

Head Modules

*pro*AT Head & Tongue Actuator



Images above show a TA2T6 (left handed)

*pro*AT Head & Tongue Actuator

- Heavy duty tongue unit.
- Ideal for fast, frequent access.
- 4 position fixing at 90° increments allowing on site handing change.
- Misalignment tolerance of +/- 12mm.
- 12mm Overtravel allowance.
- Retention force 10,000N when top fixing is used.
- Can be fitted with lock-out devices for additional safety.
- Mounted upside down it is self cleaning, ideal for dusty environments.

*pro*AT Head & Tongue Technical Specification

Housing Materials	Zinc Alloy to BSEN12844 Stainless Steel to BS3146
Paint Finish	Gloss powder coat on passivated zinc alloy
Colour	Black and Stainless Steel
Retention Force (locked)	10,000N
Mechanical Life	>1,000,000 Switching Cycles
Performance Level	PLe
B10d	5,000,000
Ambient Temperature	-5°C to 80°C (23°F to 176°F)
Environment	Indoor & Outdoor

*pro*AT Head Options & Ordering Information

Part Number	Item No.	Description
T6	ITM-00038819	proAT Head
T7	ITM-00038824	proAT Head c/w Drop Down Lockout
T8	ITM-00038830	proAT Head c/w ATL Lock-Out Clip

* The Item No. or Part No. can be quoted for quotation and ordering purposes

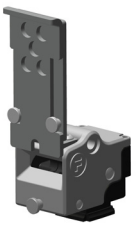
Safety Functions - *pro*AT Head		**Part No**		
Safety Function 1	Retain Actuator	T6	T7	T8
Safety Function 2	Transfer motion of actuator removal into breaking of safety contacts			
Safety Function 3	Prevents insertion of actuator when “locked out”			

*pro*AT Tongue Options & Ordering Information

Part No.	Item No.	Item No.
TA1	AT Tongue Front Handing	ITM-00038780
TA2	AT Tongue Left Handing	ITM-00038806
TA3	AT Tongue Back Handing	ITM-00038807
TA4	AT Tongue Right Handing	ITM-00038808

* The Item No. or Part No. can be quoted for quotation and ordering purposes

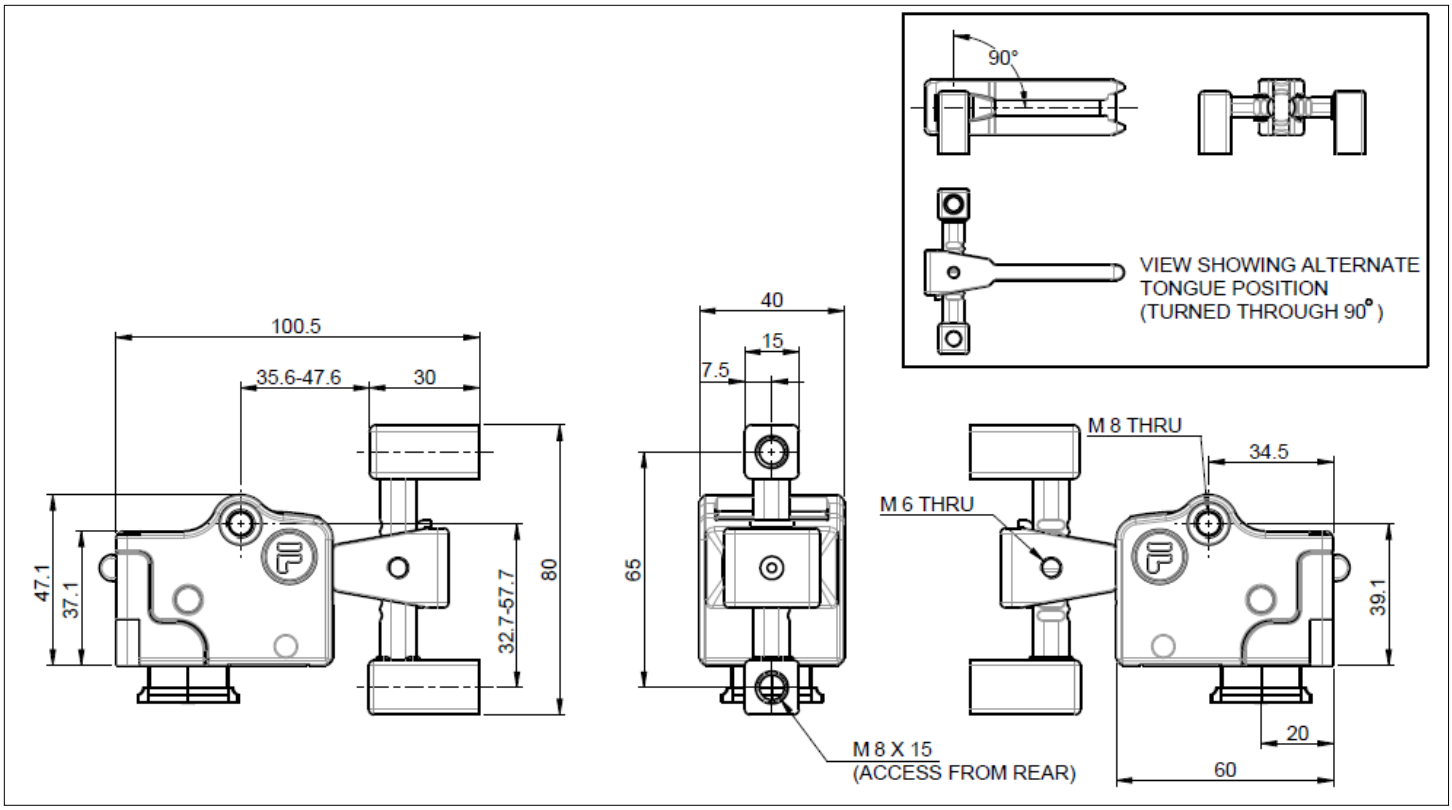
Safety Functions - *pro*AT Tongue		**Part No**
Safety Function 1	Provides link from interlock to door	TA



proAT Head c/w Drop Down Lockout

ATL Lock-Out Clip

Dimensional Drawing

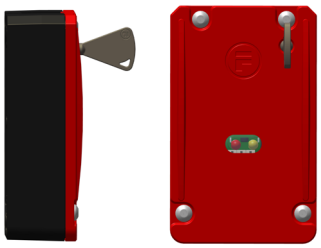


TA2T6SLC11 / TA2T6SL111
TA2T6SL211 / TA2T6SL411

Datasheet

Electrical Switching / Locking

*pro*Lok - Solenoid Controlled Body - Standard, Power to Lock and ASi



***pro*Lok** Solenoid Controlled Body is used to manage activities by means of a solenoid control element. There are five basic types, Standard, Power to Lock, ASi, Un-Monitored and Individual Safety Circuits.

NOTE! Standard, Power to Lock and ASi body types have 2 derivitives, normal and releasing. The releasing version is the type that **MUST** be used if used in conjunction with any type of internal release function (push I/R) or all in one head module with IR Handle.

*pro*Lok - Standard

On supplying power to the solenoid the unit becomes unlocked. This is the recommended set up for most machine guarding applications. A special key driven override facility is included to unlock the unit in the event of a power failure. Available in Standard and Releasing Versions.

- LED indicators for status identification.
- Ideal for machines with run-down cycles
- Split voltage available on request.
- To be used with safety relay and/or safety PLC control systems.

*pro*Lok - Power to Lock

On supplying power to the solenoid the unit becomes locked. This is not the recommended set up for most machine guarding applications. However, it allows faster access and exit in the event of a power failure. Available in Standard and Releasing Versions.

- LED indicators for status identification.
- Split voltage available on request.
- To be used with safety relay and/or safety PLC control systems.

*pro*Lok - AS-interface

On supplying power to the solenoid the unit becomes unlocked. This is the recommended set up for most machine guarding applications. A special key driven override facility is included to unlock the unit in the event of a power failure. Available in Standard and Releasing Versions.

- Ideal for machines with run-down cycles
- LED indicators for status identification
- To be used with safety relay and/or safety PLC control systems.
- For use in AS-i Safe environments

*pro*Lok - Un-Monitored Solenoid

On supplying power to the solenoid the unit becomes unlocked, however only a single monitoring contact is closed. This is a popular configuration for where the solenoid performs a process control rather than safety function. A special key driven override facility is included to unlock the unit in the event of a power failure. Available in Standard and Releasing Versions.

- LED indicators for status identification.
- To be used with safety relay and/or safety PLC control systems.

NOTICE!
If, as a result of risk assesment, it cannot be discounted that persons can be enclosed within a danger zone, the guard locks with additional removeable keys (safety keys) must be used or comparable measures must be taken - GS ET 19.

*pro*Lok - Individual

On supplying power to the solenoid the unit becomes unlocked. This is the recommended set up for most machine guarding applications. A special key driven override facility is included to unlock the unit in the event of a power failure.

- Ideal for machines with run-down cycles
- LED indicators for status identification
- To be used with safety relay and/or safety PLC control systems.
- On activation of escape release the safety contacts are broken.
- Solenoid monitored by 1 x NC volt free contact and 1 x NO contact (input shared with head).
- Head monitored by 1 x NC volt free contact and 1 x NO contact (input shared with solenoid).

Approvals

Safety Functions - *pro*Lok		Part No	
Safety Function 1	Turns mechanical movement of head / lock into operation of safety contacts	SL	SR
Safety Function 2	Solenoid mechanism holds door locked		
Safety Function 3	Solenoid overriden and safety contact activated on operation of an push IR or I6/7		

***pro*Lok Technical Specification**		**Standard *pro*Lok**	**Power to Lock *pro*Lok**	**ASi *pro*Lok**	**Un-Monitored Solenoid proLok**	**Individual Safety Circuits *pro*Lok**
Housing Materials	Zinc Alloy to BSEN12844	•	•	•	•	•
Paint Finishes	Gloss Powder Coat on Passivated Base Material	•	•	•	•	•
Ingress Protection	IP67	•	•	•	•	•
Mechanical Life	>1,000,000 Switching Cycles	•	•	•	•	•
Performance Level		PLe	PLc to PLe*	PLe	PLc to PLe*	PLe
Ambient Temperature	-5°C to + 40°C (23°F to 104°F)	•**	•	•**	•**	•**
Switches Conformance	DIN VDE 0060 Part 206 & IEC 947-5-1	•	•	•	•	•
Actuator Contact		2NC 1NO	2NC 1NO	2NC 1NO	2NC 1NO	1NC 1NO
Solenoid Contacts		2NC 1NO	1NO	2NC 1NO	1NO	1NC 1NO
Safety Circuit Switching Principal	Positive Break Dual Channel	•	•	•	•	•
Maximum Switch Current	3A	•	•		•	•
Minimum Switch Current	1mA at 5 VDC	•	•		•	•
Maxiumum Switching Voltage	230V AC Max	•	•		•	•
Control Voltages	24V ac/dc, 110V ac, 230V ac	•	•		•	•
Solenoid Power Rating	12W (Solenoid current at Nominal 24V dc = 500mA. Quasient current = 350mA).	•	•	•	•	•
Solenoid Rating (Duty Cycle)	100%	•	•	•	•	•
Solenoid Voltage	24V ac/dc, 110V ac, 230V ac	•	•		•	•
Solenoid Voltage Tolerance	90% to 110% of nominal	•	•	•	•	•
Connector Type	M12 male			•		
Cable Size	28 - 24 AWG	•	•		•	•
B10d	5,000,000	•	•	•	•	•
DC	99%	•	•	•	•	•
λ_d	10%	•	•	•	•	•
Diagnostic Coverage	Position Monitoring	•	•	•	•	•
Quick Disconnects*	Various Options	•	•		•	•
Environment	Indoor & Outdoor	•	•	•	•	•

*** depending on application**

**** unit can be used in +60˚C environment if solenoid is wired in series with a momentary push button to ensure solenoid is not left energised for over 60 seconds**

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TA2T6SL211 / TA2T6SL411

Datasheet

Electrical Switching / Locking

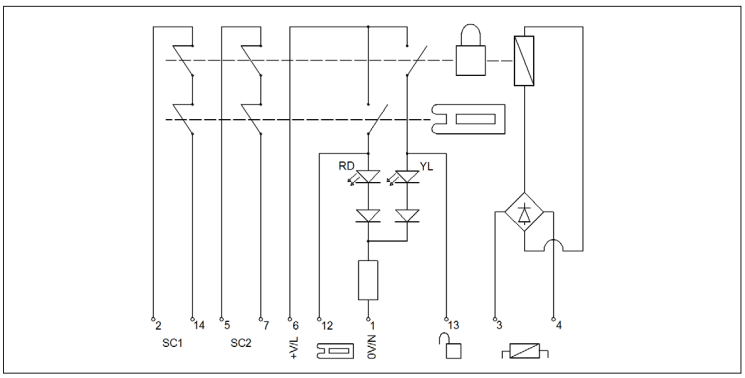
***pro*Lok** - Solenoid Controlled Body - Standard, Power to Lock and ASi

*pro*Lok Ordering Information

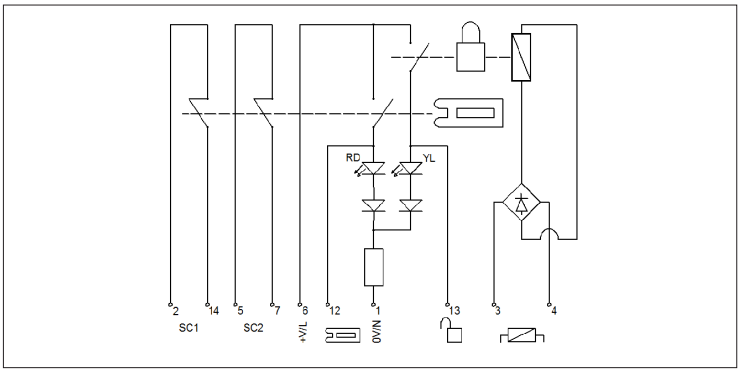
Version	Control Voltage	Solenoid Voltage	Sourcing△	Part No.
Standard	24V AC/DC	24V AC/DC	✓	SL411
Standard	110V AC	110V AC	✓	SL111
Standard	230V AC	230V AC	✓	SL211
Standard Releasing	24V AC/DC	24V AC/DC	✓	SR411
Standard Releasing	110V AC	110V AC	✓	SR111
Standard Releasing	230V AC	230V AC	✓	SR211
Power to Lock	24V AC/DC	24V AC/DC	✓	SL461
Power to Lock	110V AC	110V AC	✓	SL161
Power to Lock Releasing	24V AC/DC	24V AC/DC	✓	SR461
Power to Lock Releasing	110V AC	110V AC	✓	SR161
ASi	24V AC/DC	24V AC/DC	N/A	SL811
ASi Releasing	24V AC/DC	24V AC/C	N/A	SR811
Un-Monitored Solenoid	24V AC/DC	24V AC/DC	✓	SL416
Un-Monitored Solenoid	110V AC	110V AC	✓	SL116
Un-Monitored Solenoid	230V AC	230V AC	✓	SL216
Individual Releasing	24V AC/DC	24V AC/DC	✓	SR468
Individual Releasing	110V AC	110V AC	✓	SR168
Individual Power to Lock	24V AC/DC	24V AC/DC	✓	SL468
Individual Power to Lock	110V AC	110V AC	✓	SL168
Individual Releasing	24V	24V	✓	SR418
Individual Safety	24V	24V	✓	SL418

△Sourcing ouput supplied as standard, Sinking option available on request

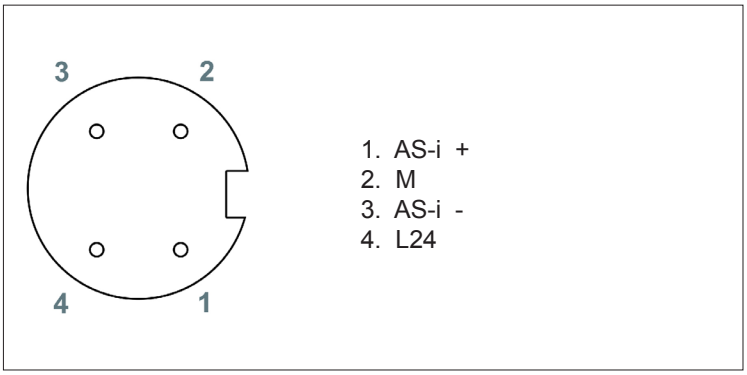
*pro*Lok Standard Wiring Diagram



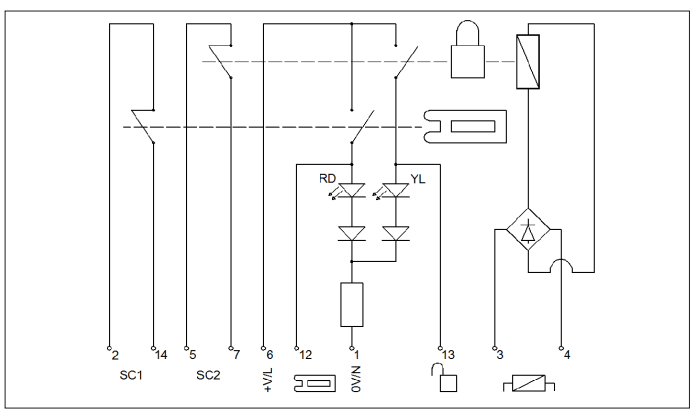
*pro*Lok Power to Lock Wiring Diagram



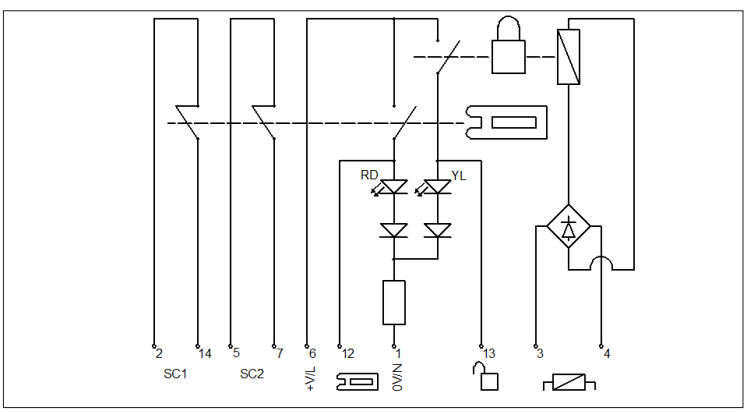
*pro*Lok ASi Wiring Diagram



*pro*Lok Individual Safety Circuits Wiring Diagram (Option 8)



*pro*Lok Un-Monitored Solenoid Wiring Diagram



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Datasheet

Electrical Switching / Locking

***pro*Lok** - Solenoid Controlled Body - Standard, Power to Lock and ASi

Dimensional Drawing