

# Data Sheet

# AmLok AS-i



amGard safety gate switch solutions consist of a range of 'Control interlocks'. The control interlocks are split into gate switches (Stops) and solenoid interlocks (Loks). Combining tamper proof locking mechanisms and dual channel safety circuitry amGard is suitable for category 4 applications.

## description:

amlok AS-i is a heavy duty solenoid controlled, handle operated switch, designed for direct connection onto a 'AS-i Safety at Work' installation. Fitted with a standard M12 quick connect fitting, it has a heavy duty handle unit which allows for a high degree of misalignment and can rotate in 90° increments, the handle can also be turned through 360° in 45° increments. It features a key operated auxiliary release (in the event of a power failure) and LED status indicators. The product is suitable for both sliding and hinged door applications and is fitted with a shear pin to protect both machinery and personnel. It has a coded tamper resistant locking mechanism.



**operation** - when the machinery is in operation within the guarded area, the handle is trapped in the AmLok AS-i unit and cannot be removed. The access door to the guarded area is locked closed. A solenoid controlled mechanism prevents the handle from being turned and released. To open the door, the operator must first select stop on the machine control panel. Only when the machine has completed its run down cycle should the **AmLok AS-i** solenoid be energised, via the AS-i control with auxiliary supply. At this point, the 'solenoid circuit healthy' LED will extinguish on the unit indicating that the handle can be released. When the handle is removed, the 'door circuit healthy' LED will extinguish indicating that access has been granted.

## Options

Safety Key Adaptor



Access Key Adaptor



Padlock Adaptor



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## Technical Specification

Housing Materials	Zinc Alloy to BS EN 12844/ Stainless Steel to BS3146
Paint Finish	Gloss Polyester Powder Coat on Passivated Base Material
Colour	Red & Black & Stainless Steel
Ingress Protection	IP67 (DIN 400050)
Am Handle Operating Force	0.5Nm
Auto Head Retention Forced Locked	10KN
Maximum Approach Speed	20m/minute
Mechanical Life	>1,000,000 Switching Cycles

## Technical Specification

Maximum frequency of operation	7,200/hour
Ambient temperature	-5°C to +40°C (Mean Over 24 Hours = +35°C)
Connector Type	M12 Male
Switching Principal	Positive Break
Contact Material	90% Silver and 10% Nickel
Solenoid Power Rating	12W
(Solenoid current at Nominal 24V DC)	(500mA)
Solenoid Rating (Duty Cycle)	100%

