# M30 Inductive 3-wire DC Proximity Switches AT1



Robust, heavy-duty case proximity switches for DC operation

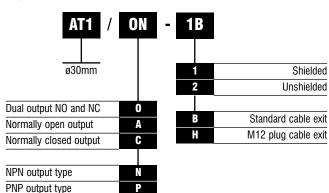
- Shielded and unshielded models
- IP67 nickel-plated brass housing
- Short-circuit protection
- Inductive loads protection
- Reverse polarity protection
- Side-mounted LED operation indicator
- Integral metal cable support or M12 metal plug
- Nominal sensing range: Shielded 10mm

Unshielded 15mm

■ UL and CUL approved



### **Options and ordering codes**



#### **Specification**

Model	AT1
Hysteresis	10% maximum
Repeatability	5%
Supply voltage	10-30 VDC
Ripple	10% maximum
Maximum consumption	20mA
Switching frequency	150Hz, 200Hz**
Output type	NPN or PNP
Output state	NO or NC
Load current	≤ 400mA
Residual output voltage	1V max. IL=100mA
Leakage current	<10µA
Time delay before availbility	100ms
Output current limit	450-500mA
Short circuit protection	autoreset
Polarity reversal protection	yes
Inductive loads protection	yes
LED status indicator	yes (at the side)
Insulation resistance	$>$ 2000m $\Omega$ to 2000VDC
Dielectric strength	2000VAC 50Hz for 1 min
Protection degree	IP67
Temperature range	-25° +70°C
Temperature drift	10% Sn
Housing material	nickel-plated brass
Front material	PBT to UL94 V0
Tightening torque	100 Nm max
Ambient humidity	35%-85% r.h.
Weight (approx.)	270g

#### Note:

• version only available in Plug-in

A version pre-wired

#### Other cable options:

Customised cables

Please contact IMO for price and availability

## M30 Inductive 3-wire DC Proximity Switches AT1 continued



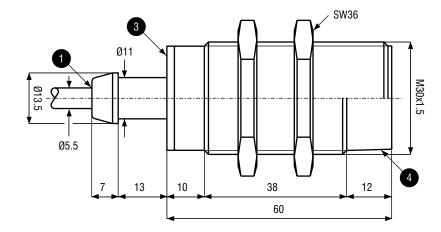
SW36

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#### **Dimensions** (mm)

AT1/\*\*-\*B in line cable exit with tang

Cable: ø5mm, 2m length, 3 x 0.34mm<sup>2</sup>, PVC material



#### AT1/\*\*-\*H M12 plug cable exit

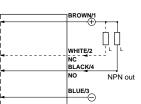
1 In line cable exit with tang 2 M12 plug-in exit 38 16 10

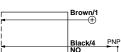
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- 3 Red. output state LED
- 4 Unthreaded section on unshielded models

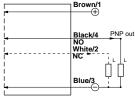
#### **Output circuit – wiring connections**

# **NPN output PT1**



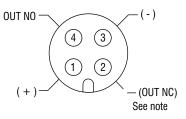


**PNP output PT1** 



#### M12 plug - pin connections Cable exit option H

60



NOTE: (pin connections): At present, all plug exit sensors have the output on pin 4. According to EEC Directives, the output of NC plug exit models will be changing to pin 2 (NO will remain on pin 4). A plug cable to match these NC sensors MUST be a 4-wire type as 3-wire cables are connected to pins 1, 3 and 4 - contact IMO to check stock types.