Electronic Side Mounted Hand Throttle 975 000 series

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1. Mechanical Specifications:

- Adjustable actuating force
- No return spring
- Allows engine constant RPM at selected rate through lever position
- Easy to use in combination with Throttle Pedal or Throttle Position Sensor
- Very convenient whenever engine is operated from a/several remote stations
- C € certified

Travel angle	90°	
Protection classification	IP66	
Storage temperature	-40℃ to +95℃	
Operating temperature	-40℃ to +85℃	
Connector	AMP - 6 pins - waterproof (IP69)	

• Options:

Connector kit or customized wire harness

• Technical specification sheet and part numbers are available upon request

2. Electrical Specifications:

- Complies with 72/245/EEC
- E1 number 03 5754

All Electronic Throttle Controls are fitted with programmable Hall Effect Sensors.

The signals generated by the Electronic Throttle Controls will allow a smooth and precise engine speed control.

The output values are programmable and hence can be adapted to the customer's specifications. Electronic Throttle Controls can be connected directly to the engine management system, or engine Electronic Control Module.

For available programmable sensor models, please refer to pages 3 and 4.

A/ Programmable single analogue sensor with programmable electronic Idle Validation Switch (IVS)

Analogue channel:

Current consumption	< 7,5mA	
Supply (Vs)	Between 5V and 28 V DC	
Output signal value	Between 5% and 95% (+/- 1%) of 5V DC	
Output current	Max 1mA	

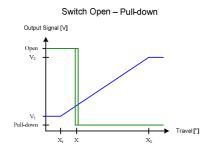
Switch channel option 1:

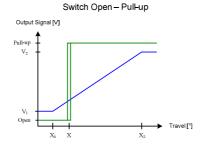
Current consumption	< 10mA
Supply (Vs)	Between 8V and 36V DC
Idle Validation Switch	Configurable (Open collector, Pull-up or Pull-down)
Output current	Max 10mA

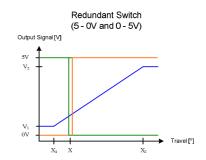
Switch channel option 2:

Current consumption	< 10mA	
Supply (Vs)	Between 8V and 36V DC	
Redundant Idle Validation	Output 1 : High - Low (5 - 0V)	
Switch (2 outputs)	Output 2 : Low - High (0 - 5V)	
Output current	Max 1mA / output	

Examples:



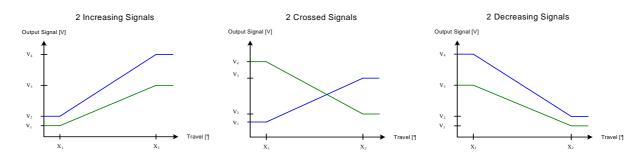




B/ Programmable dual output analogue sensor

Current consumption	< 8mA / channel	
Supply (Vs)	5V DC / channel	
Output channel #1	Between 5% and 95% (+/- 1%) of Vs	
Output channel #2	Between 5% and 95% (+/- 1%) of Vs	
Output current	Max 1mA / channel	

Examples:



C/ Programmable single or dual output digital sensor (PWM)

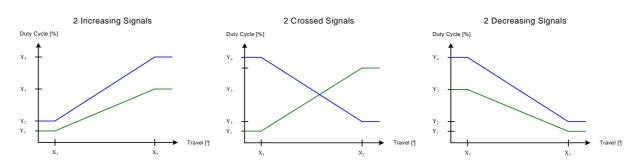
Digital channel(s):

Current consumption	< 12mA / channel	
Supply (Vs)	Between 8 and 36 V DC	
Output channel #1	Duty cycle between 5% and 95% (+/- 1%)	
Output channel #2	Duty cycle between 5% and 95% (+/- 1%)	
Frequency	200Hz to 500Hz +/-15%	
Output current	Max 10mA / channel	

Optional Switch channel with single digital output :

Current consumption	< 12mA	
Supply (Vs)	Between 8V and 36V DC	
Idle Validation Switch	Configurable (Open collector, Pull-up or Pull-down	
Output current	Max 10mA	

Examples:



3. Options:

A/ CAN J1939

J1939 Parameters:

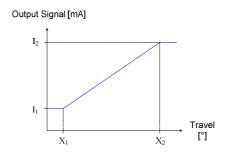
- J1939 Messages and signals can be activated according to MCS Throttle default values or customer specifications.
- J1939 Parameters like SA (Source Address) or NAME fields can be set according to MCS Throttle default values or customer specifications.
- Optional messages such as DTC (DMx, FMI, MIL, ...) can be activated upon customer request.

Electrical specifications:

Power Supply	+8 32VDC
Current consumption	40mA max.
J1939 Connector	Deutsch #DT06-3S (J1939/11)

B/ 4-20mA current output signals

Power Supply	+8 32VDC
Current output signal	4 - 20mA



C/ Customized parts available



With bended lever

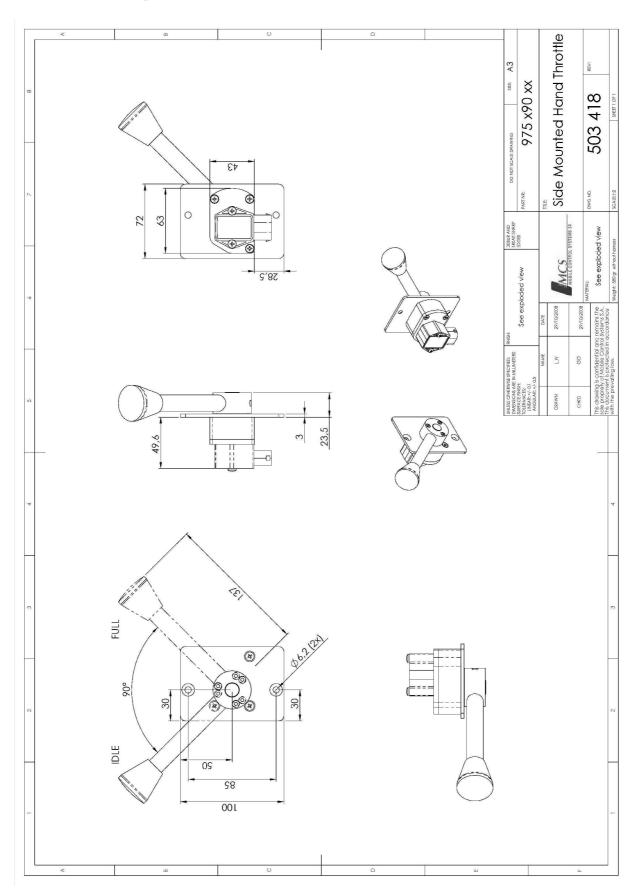


With straight lever



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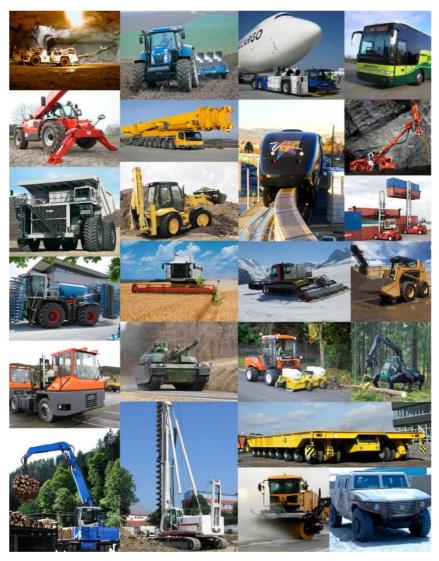
4. Drawing:



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5. Typical Applications:



6. Compatible with the following engines:

- CATERPILLAR
- **CUMMINS**
- DACHAI
- DEAWOO
- DAF
- DETROIT DIESEL
- DEUTZ
- HINO
- ISUZU
- IVECO

- JCB
- JOHN DEERE
- KUBOTA
- LIEBHERR
- LOVOL
- MAN
- MERCEDES-BENZ
- MTU
- NAVISTAR
- NISSAN

- PERKINS
- RENAULT
- SCANIA
- SHANGHAI DIESEL
- SISU DIESEL
- VOLKSWAGEN
- VOLVO
- WEICHAI
- YANMAR
- YUCHAI



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