



**Metal Detector METAL SHARK TU**

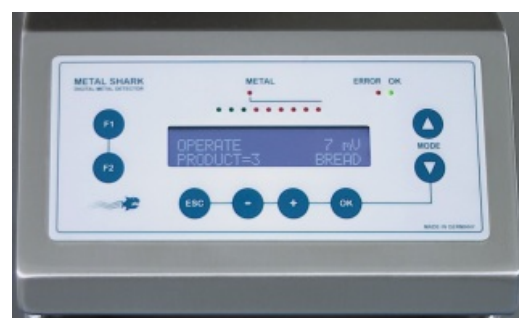
High metal sensitivity  
Sensing width 200 - 2000 mm (4 in - 6,6 ft)

Conveyor installation  
Divide-able sensor head  
Product effect compensation

Applications:  
Plastic recycling  
Rubber production  
Wood and paper processing  
Food related industries



*Sensor head TU*



*Digital control unit SHARK*

**MCR Technologies Group, Inc. P.O. Box 1016 Sterling, Illinois. 61081**  
**Phone: 815-622-3181 Fax: 815-622-0819 email: [mcr@essex1.com](mailto:mcr@essex1.com)**  
**[www.mcrtechnologiesgroup.com](http://www.mcrtechnologiesgroup.com)**

## METAL SHARK TU



Type	METAL SHARKTU	Link cable	2,5 m(8,2 feet), with cable protection tube, applies only with wall mounting option for the control unit
Installation	Conveyor, typical horizontal, but each angle is applicable. Sensor head able to divide: No belt cut required.	Timer	yes, for reject device control Delay and duration adjustable from 0-9990 ms
Metal free zone Before/after detector	Fix and solid metal = 100 mm Moving / vibrating metal = 1,5x aperture height	Conveyor speed	25 - 2000 mm/sec. (1" - 6,6 feet/sec.)
Power supply	85-264 V / 50-60 Hz	Out signals	Metal relay changeover contact (max 250V/1A) Metal alarm signal for PLC (out 24V/20mA) Fault relay changeover contact (max 250 V/1 A) Reject device drive, e.g. solenoid valve (24V DC/30mA)
Power input	100 Watts	In Signals	Reject trigger, e.g. optical sensor (24V DC) Control air pressure of reject device (24V DC) Control reject success (24V DC) Remote metal reset push button (24V DC) Remote lock keyboard against unauthorized access (24V DC)
Ambient temperature	-10...+50 C / 15...120 F	Logging interface	Rs232, e.g. printer to log process data according HACCP Network interface Rs485 (Option)
Product (food) temperature	-20...+80 C / 0...180 F	Options	* Remote product selector switch * Customized conveyor design * Various belt types (Chain link, Polyurethan etc.) * Belt control unit Start/Stop/Reset with frequency inverter * Alarm flash light * Alarm horn
Degree of protection	Control unit IP65 (Nema 4x, 12) Sensor IP67 (Nema 6P, 12)		
Sensor head	Stainless steel housing		
Control unit	<b>Stainless housing</b> , attached to the side of sensor head (Option: prepared for wall mounting, with link cable)  <b>Digital noise filters</b> eliminate undesired signals.  <b>Product effect library</b> - the characteristics of 50 different products can be stored and recalled here.  <b>Automatic learning</b> provides simple and quick learning of product characteristics for product effect compensation.		