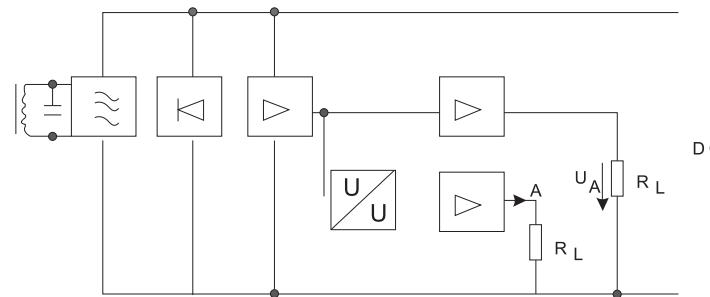


电感式线性传感器 INDUCTIVE LINEAR SENSOR

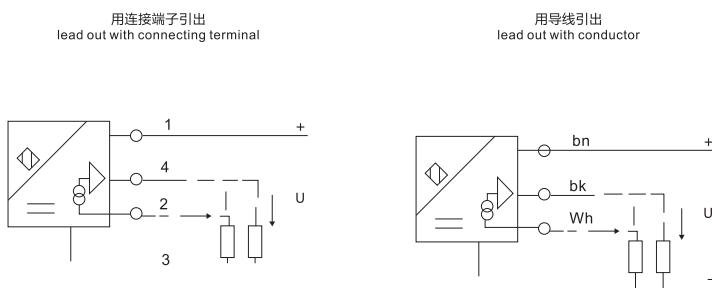
工作原理 work principle

- 带模拟量输出的电感式接近开关与普通电感式接近开关的工作原理相同，当一个金属物体靠近传感器的感应面时，振荡器系统的能量减小，能量减小的程度是物体和传感器之间距离的尺寸标志，在一个附加电器中能量损耗被转换成测量信号，经线性化处理后被放大。(图5)
- 在输出端提供一个标准模拟信号(0~5V或4~20mA···)
- Inductive proximity switch with analog quantity output has the similar work principle with general inductive proximity switch. The energy of oscillator system decreases when a metal object approaches the inductive side. The energy decrease degree indicates the distance between the metal object and the sensor. The energy consumption is transformed into measuring signal in an additional device and magnified through linear treatment.(Fig.5) Provide a standard analog signal at output terminal(0~5V or 4~20mA···)

带模拟量输出的电感式接近开关的工作原理
Work principle of inductive proximity switch with analog quantity



接线示意图 Installation and connection



Note: the color of core line BN=brown, BK=black, BU=blue, and YE=yellow

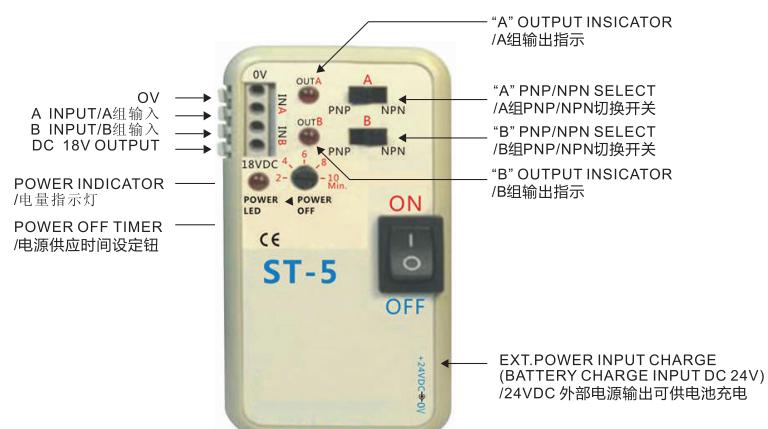
传感器测试仪 SENSORTESTERS

TYPE:ST-1

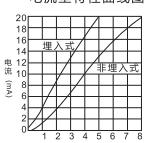
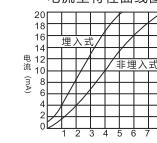
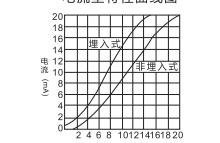
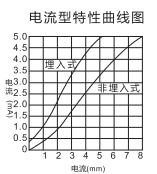
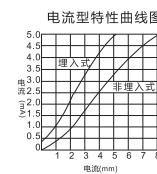
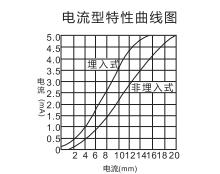
- 具有AC/DC/NPN/PNP/接插件/LED指示灯等多功能微型传感器测试仪
- Multi-functional Micro-sensor tester with AC/DC/NPN/PNP/connector/led indicator and other functions

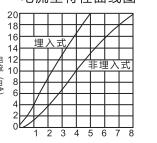
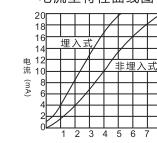
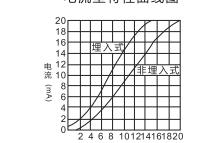
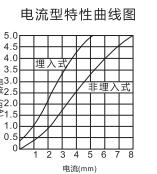
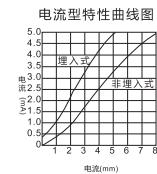
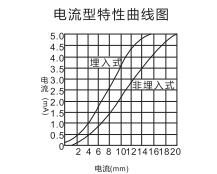


TYPE:ST-5



电感式线性传感器 INDUCTIVE LINEAR SENSOR

结构分类 Structural category		电感式位移量线性传感器 inductive linear displacement sensor					
外形编号Outward Appearance code		XM12		XM18		XM30	
外形图例 Outward appearance illustration							
可检测物体Detectable object		金属Metal	金属Metal	金属Metal	金属Metal		
检测距离Detection distance		埋入式:2mm Flush type:2mm	非埋入式:4mm Non-Flush:4mm	埋入式:5mm Flush type:5mm	非埋入式:8mm Non-Flush:8mm	埋入式:10mm Flush:10mm	非埋入式:15mm Non-Flush:15mm
具备型号 Model available	电流型Current type	XM12-3002PMI	XM12-3004PMI	XM18-3005PMI	XM18-3008PMI	XM30-3010PMI	XM30-3015PMI
电压型Voltage type		XM12-3002PMU	XM12-3004PMU	XM18-3005PMU	XM18-3008PMU	XM30-3010PMU	XM30-3015PMU
电压范围Voltage range		15~30VDC					
功耗 Consumption	检测时at the time of detection	$\leq 200mA \cdots <4mA$					
	无检测时at the time of non-detection	$\leq 20mA$					
负载电阻 Loading resistance	电流型Current type	$0\sim 300\Omega$					
	电压型Voltage type	$\geq 2.2K\Omega$					
输出 Output	电流型Current type	$4\sim 20mA$					
	电压型Voltage type	$0\sim 5V\sim 0\sim 10V$					
输出特性图 Output characteristic diagram							
电压波动Voltage fluctuation		$\leq 5\%$					
输出信号Output signal		PNP 模拟 PNP Simulation					
线性误差Linear deviation		$\pm 5\%$					
环境温度Ambient temperature		$-10^{\circ}C \sim +70^{\circ}C$					
外壳材料Shell material		塑料、金属Plastic, Metal					
防护等级Protection grade		IP54					

结构分类 Structural category		电感式位移量线性传感器 inductive linear displacement sensor					
外形编号Outward Appearance code		XMF10		XMF37		XMF38	
外形图例 Outward appearance illustration							
可检测物体Detectable object		金属Metal	金属Metal	金属Metal	金属Metal	金属Metal	金属Metal
检测距离Detection distance		埋入式:15mm Flush:15mm	非埋入式:20mm Non-Flush:20mm	埋入式:15mm Flush:15mm	非埋入式:20mm Non-Flush:20mm	埋入式:40mm Flush:40mm	非埋入式:50mm Non-Flush:50mm
具备型号 Model available	电流型Current type	XMF10-3015PMI	XMF10-3020PMI	XMF37-3015PMI	XMF37-3020PMI	XMF38-3040PMI	XMF38-3050PMI
电压型Voltage type		XMF10-3015PMU	XMF10-3020PMU	XMF37-3015PMU	XMF37-3020PMU	XMF38-3040PMU	XMF38-3050PMU
电压范围Voltage range		15~30VDC					
功耗 Consumption	检测时at the time of detection	$\leq 200mA \cdots <4mA$					
	无检测时at the time of non-detection	$\leq 20mA$					
负载电阻 Loading resistance	电流型Current type	$0\sim 300\Omega$					
	电压型Voltage type	$\geq 2.2K\Omega$					
输出 Output	电流型Current type	$4\sim 20mA$					
	电压型Voltage type	$0\sim 5V\sim 0\sim 10V$					
输出特性图 Output characteristic diagram							
电压波动Voltage fluctuation		$\leq 5\%$					
输出信号Output signal		PNP 模拟 PNP Simulation					
线性误差Linear deviation		$\pm 5\%$					
环境温度Ambient temperature		$-10^{\circ}C \sim +70^{\circ}C$					
外壳材料Shell material		塑料、金属Plastic, Metal					
防护等级Protection grade		IP54					