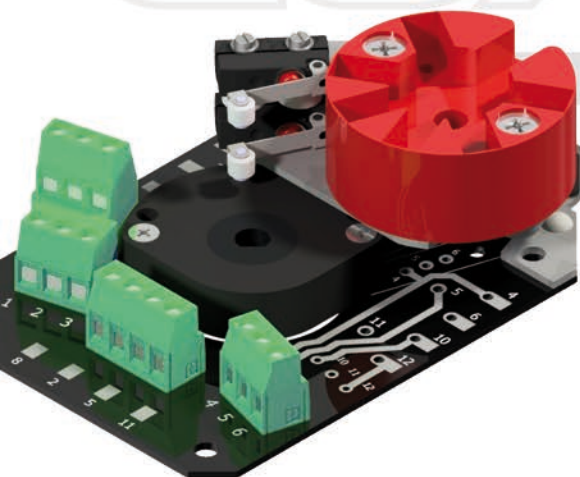


TX 75-76-78

POSITION TRANSMITTER

VALVE MONITORING PRODUCTS



Position transmitter & switches/proximity

Guardbox is able to supply a wide range of solutions where switches or proximity sensor are required jointly with built in position transmitter. TY features will include inside standard limit switch box transmitter with max 3 switches/proximity sensors. TX plus electromechanical ES or ED series, magnetic proximity MS or MD and inductive PI/PN sensors can be fitted inside all Guardbox limit switch box series. Stand alone position transmitter TX can be supplied if required.

Oltre al solo trasmettitore Guardbox è in grado di offrire soluzioni combinate dove il trasmettitore di posizione viene assemblato unitamente a contatti/proximity. L'opzione TY può includere fino ad un massimo di 3 sensori, ES/ED - MS/MD - PI/PN all'interno dello stesso box.

Technical data TX 75 programmable transmitter



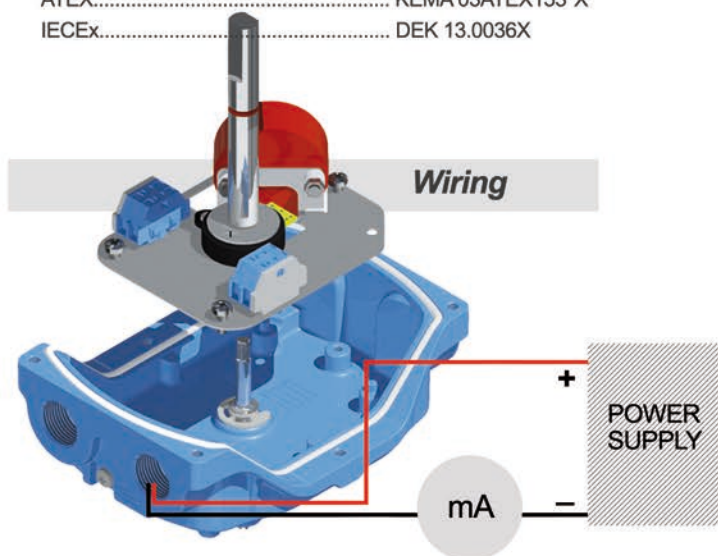
Temperature range.....	-40°C to +85°C
Calibration temperature.....	20...28°C
Supply voltage.....	8.0...30 VDC
Internal consumption.....	25 mW...0.8 W
Voltage drop.....	8.0 VDC
Warm-up time.....	5 min
Communications interface.....	Loop Link
Response time (programmable).....	0.33...60 s
Accuracy.....	Better than 0.1% of selected range
Signal dynamics, input.....	19 bit
Signal dynamics, output.....	16 bit
Effect of supply voltage change.....	< 0.005% of span / VDC
Current output: Signal range.....	4...20 mA
Min. signal range.....	16 mA
Updating time.....	135 ms
Load resistance, current output.....	$\leq (V_{\text{supply}} - 8) / 0.023 [\Omega]$
Load stability, current output.....	$\leq 0.01\%$ of span / 100 Ω
Sensor error indication, current output..	Programmable 3.5...23 mA
NAMUR NE 43 Upscale/Downscale.....	23 mA / 3.5 mA
*of span.....	= of the presently selected range
ATEX.....	KEMA 03ATEX153*X
IECEX.....	DEK 13.0036X

Technical data TX 76 programmable transmitter



Temperature range.....	-40°C to +85°C
Calibration temperature.....	20...28°C
Supply voltage.....	8.0...30 VDC
Internal consumption.....	25 mW...0.8 W
Voltage drop.....	8.0 VDC
Warm-up time.....	30 sec.
Communications interface.....	Loop Link & HART 5
Response time (programmable).....	1..60 s
Accuracy.....	Better than 0.05% of selected range
Signal dynamics, input.....	22 bit
Signal dynamics, output.....	16 bit
Effect of supply voltage change.....	< 0.005% of span / VDC
Current output: Signal range.....	4...20 mA
Min. signal range.....	16 mA
Load resistance, current output.....	$\leq (V_{\text{supply}} - 8) / 0.023 [\Omega]$
Load stability, current output.....	$\leq 0.01\%$ of span / 100 Ω
Sensor error indication, current output..	Programmable 3.5...23 mA
NAMUR NE 43 Upscale/Downscale.....	23 mA / 3.5 mA
*of span.....	= of the presently selected range
ATEX.....	KEMA 03ATEX1537
IECEX.....	KEM 10.0083X

Wiring



Technical data TX 78 programmable transmitter



Communications interface.....	Loop Link & HART 5 & 7
ATEX.....	KEMA 03ATEX1537
IECEX.....	KEM 10.0083X

(for all other technical data see above TX 76)