

PHOTOELECTRIC SWITCHES
POSITION TRANSDUCERS
PROXIMITY SWITCHES
ENCODERS



ACCENT

wenglor *Germany*
Photoelectric Switches

India
ACCENT
Proximity Switches



CONTELEC *Switzerland*
Potentiometers



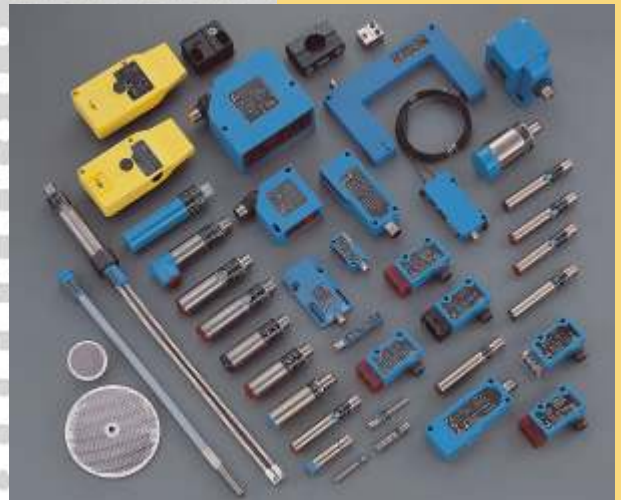
Germany
novotechnik
Position Transducers

WORLD CLASS POSITION SENSORS

wenglor

Germany

World-Class Photoelectric Switches



REFLEX (DIFFUSE REFLECTION) SENSORS

(For object detection)

- Sensing Range: 30mm to 2000mm
- Variety of shapes and sizes
- Models with Teach facility available
- Models with Analogue output available
- Special Models for detection of contrast and gloss

REFLEX SENSORS WITH BACKGROUND SUPPRESSION

(For object detection in the presence of an adjacent background)

- Up to 50 microns separation (between target and background) detectable
- Sensing range independent of color/texture of target
- Sensing Range: 55mm to 1500mm
- Variety of shapes and sizes
- Models with Teach facility available

REFLEX SENSORS – UNIVERSAL

(For object detection)

- May be used with or without fibre-optic cable
- Choice of Glass or Plastic fibre-optic cable
- With glass fibre upto 1m range in reflex mode and upto 4.5m range in through beam mode
- With plastic fibre upto 160mm range in reflex mode and upto 400mm range in through beam mode
- Operation upto 300°C with glass fibre

REFLEX SENSORS FOR DISTANCE MEASUREMENT

(For measurement of distance, height, thickness, diameter etc.)

- Sensing Range: 43mm to 100.5m
- Resolution as low as 2 microns
- Linearity as low as 0.50%

PRINT MARK DETECTORS

- White light for error-free recognition of any print mark
- Teach-in facility for ease of installation
- 10KHz/25KHz switching frequency

RETRO REFLEX SENSORS

- Sensing Range: upto 15m
- Smallest recognizable part: 0.10mm
- Special Models for the detection of clear glass or PET bottles

THROUGH BEAM (OPPOSED BEAM) SENSORS

- Sensing Range: 5m to 100m
- Smallest recognizable part: 0.05mm

COLOUR SENSORS

(For detection/sorting of coloured solids/liquids)

- Extremely fine colour variations detectable
- Up to 16 colours teachable per sensor
- RGB values available over RS232

ACCENT



novotechnik

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The World's No.1 Position Transducers



LINEAR POTENTIOMETRIC TRANSDUCERS : T/TR

- Stroke lengths from 25 to 150mm (100mm for TR)
- Extremely compact; 18 x 18mm cross-section
- TR model has in-built return spring, useful for gauging applications
- Repeatability as low as 2 microns
- Long life – 100 million operations
- Cost-effective replacement for an LVDT

LINEAR POTENTIOMETRIC TRANSDUCERS : LWH/TLH

- Stroke lengths from 75 to 900mm (rod-type design: LWH) and from 100 to 3000mm (rod-less design: TLH)
- Resolution better than 10 microns
- Operating speed upto 10 metres/sec
- Reliable operation from -30°C to +100°C
- Long life – 100 million operations
- 0(4)-20mA signals available through optionally available signal conditioners

LINEAR, NON-CONTACT TRANSDUCERS : TLI

- Non-contact; capacitive pick-up
- Stroke lengths from 50 to 1000mm
- Resolution better than 10 microns
- Operating speed upto 10 metres/sec
- Reliable operation from -40°C to +105°C
- Direct integration into hydraulic cylinders possible; compressive strength 350bar

LINEAR NON-CONTACT TRANSDUCERS : TLM

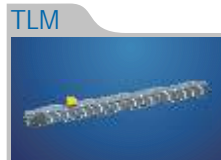
- Non-contact, absolute measurement; magnetostrictive principle
- Stroke lengths from 100 to 4500mm
- Resolution better than 2 microns
- No limit on operating speed
- Reliable operation from -40°C to +85°C
- Choice of analog or digital outputs

ROTARY POTENTIOMETRIC TRANSDUCERS

- 3, 6 or 10mm shaft diameters; hollow shaft models from 6mm to 30mm diameter
- Electrical travel upto 360°; multi-turn models available
- Repeatability as low as 0.007°
- Operating speed upto 10,000 rpm
- Reliable operation from -40°C to +100°C
- Lifetime in excess of 50 million operations
- Non-contact models available

POTENTIOMETERS

- Choice of wirewound (single/multi-turn), cermet, conductive plastic
- Repeatability as low as 0.015°
- Extremely compact; case diameters available from 9mm to 22mm
- Long life – upto 5 million operations available



CONTELEC Switzerland

Potentiometers



HOLLOW SHAFT POTENTIOMETRIC ANGLE TRANSDUCERS

- I Shaft diameter: 6 to 50mm
- I Electrical Angle: 70/150/340°
- I Life expectancy: up to 5 million cycles

CONTACTLESS ANGLE TRANSDUCERS: VERT X

- I Absolute measurement up to 360°
- I Case diameter: from ultra-compact 13.00mm to 51.00mm
- I Wide choice of output interfaces: Analog, SSI, Incremental (A, B, Z), PWM.
- I Resolution up to 14 bit depending on output interface
- I Select models for use in harsh operating environments
- I High grade of protection; select models have IP67 or IP69

POTENTIOMETERS

CONDUCTIVE PLASTIC (PL, ML)

- I Up to 5 million cycles life expectancy
- I 13.00/20.00/22.22mm case diameter
- I Multi-turn version available

WIRE-WOUND (PD)

- I Up to 100,000 cycles life expectancy
- I 8.45/12.10/12.70/20.00mm case diameter
- I Multi-turn version available

CERMET (PC)

- I Up to 50,000 cycles life expectancy
- I 8.45/20.00mm case diameter
- I Suitable for use in chemically aggressive environments

POTENTIOMETRIC LINEAR TRANSDUCERS: KL

- I 10 to 100mm stroke length
- I Ultra-compact only 13 x 13mm cross-section
- I High life expectancy of 5 million cycles
- I Spring return version available





World-Class Proximity Switches

INDUCTIVE PROXIMITY SWITCHES (NON-CYLINDRICAL)

- 17(W)x17(H)x28mm(L) – ultra compact; 5 or 8mm range; 10-30VDC
- 40(W)x40(H)x112mm(L) – limit switch mounting; 10, 15 or 20mm range; AC/DC
- 40(W)x12(H)x26mm(L) – 2 or 4mm range; 10-30VDC

INDUCTIVE PROXIMITY SWITCHES (CYLINDRICAL)

- Diameter: 6.5mm to 50mm
- Sensing Range: 1mm to 30mm
- AC/DC/Namur

CAPACITIVE PROXIMITY SWITCHES

- M18 or M30 size; 10 or 15mm range; 10-30 VDC

PHOTOELECTRIC SWITCHES

- Reflex: upto 1 meter range; M18 or M30 size; 10-30VDC
- Retro-reflex: upto 5 meters range; M18 or M30 size; 10-30 VDC
- Through Beam: upto 8 meters range; M18; 10-30VDC

Distributor in India

ACCENT CONTROLS (P) LTD.



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