

# Cylindrical Inductive Transmission Couplers



## PET Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

### Features

- Inductive coupling allows signals to be generated and transmitted without additional power supply
- Stable operation in various environmental settings including dust or oil
- Applications : drilling, robotics, automated conveyors system, etc.

### Specifications

<b>Installation</b>	<b>Flush type</b>
<b>Model</b>	<b>PET18-5</b>
<b>Transmitting distance</b>	5 mm
<b>Setting distance</b>	1 to 4.5 mm
<b>Response time</b>	≤ 1 ms
<b>Indicator</b>	Operation indicator (red)
<b>Approval</b>	ERC
<b>Unit weight (package)</b>	≈ 121 g (≈ 133 g)
<b>Insulation type</b>	≥ 50 MΩ (500 VDC= megger)
<b>Dielectric strength</b>	1,500 VAC ~ 50 / 60 Hz for 1 min
<b>Vibration</b>	1 mm double amplitude at frequency 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 2 hours
<b>Shock</b>	500 m/s <sup>2</sup> (≈ 50 G) X, Y, Z directions for 3 times
<b>Ambient temperature</b>	-25 to 70 °C, storage: -30 to 80 °C (no freezing or condensation)
<b>Ambient humidity</b>	35 to 95 %RH, storage: 35 to 95 %RH (no freezing or condensation)
<b>Protection structure</b>	IP67 (IEC standards)
<b>Connection</b>	Cable type model
<b>Wire spec.</b>	Ø 5 mm, 2-wire, 2 m
<b>Connector spec.</b>	AWG 22 (0.08 mm, 60-core), insulator diameter: Ø 1.25 mm
<b>Contact switch spec.</b>	Contact resistance is ≤ 300 mΩ, open resistance is ≥ 10 MΩ, leakage current at OFF is zero.
<b>Material</b>	Nut/Case: nickel plated brass, washer: nickel plated steel, sensing side: PBT, Standard type cable (black): polyvinyl chloride (PVC)

### Dimensions

- Unit: mm, For the detailed dimensions of the product, follow the Autonics web site.

