KISSLING ELECTRONIC PLUNGER SWITCH

Series 44 - from TE Connectivity (TE)

Electronic Switch for gear applications

Series 44 switches were developed using our competence and know-how gathered over decades of manufacturing long-life switches to meet even the most difficult operating requirements.

Series 44 plunger switches are designed and constructed to meet high temperature and vibration requirements. The robust design features IP6K9K environmental sealing and high reliability shaft and have undergone long life testing for over 4 million cycles.

The position of the switch is determined by an electronic signal and a bayonet connector according to ISO 15170 (DIN 72585) is available as interface.

Function

The electronic plunger switch serves as an electronic interface to the control power unit (CPU) by using three wires (power, ground and signal). Due to an external resistor, it is possible to send a signal in a non-switched position as well as in a switched position to the CPU.

In combination with the resistance and the internal circuit, there is the capability of diagnosing failures such as cable breakage to provide a signal to the CPU.

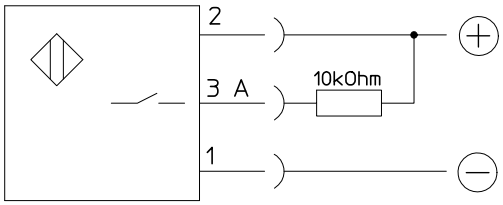
Features

- Resistant against most oils, fuels, hydraulic, dust and solvents
- Vibration (5G) resistant
- Plunger designed to permit both vertical and angular actuation

Applications

- Transmissions
- Drivetrains and conveyor systems
- Specialized commercial vehicles
- Industrial equipment
- Vehicle construction
- Marine applications

Switching function



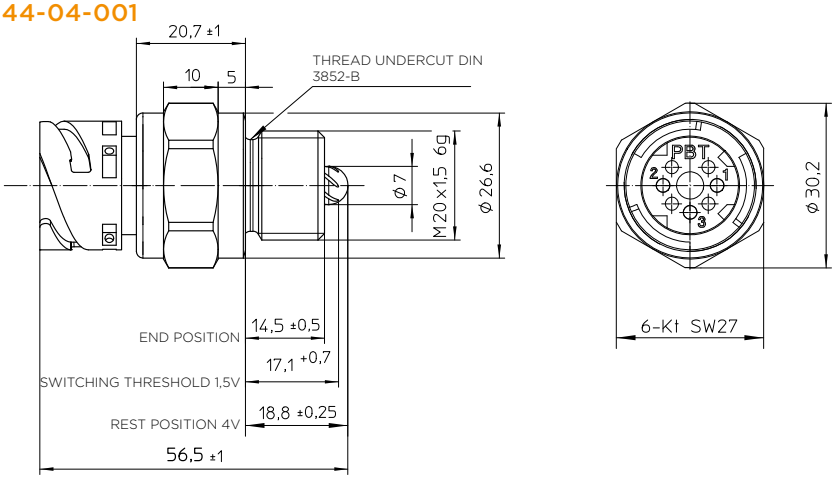
Specification

Technical Data

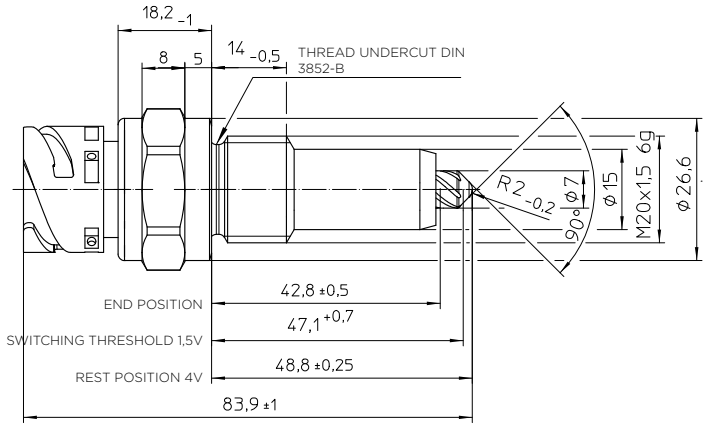
Temperature range	-40°C to +150°C
Housing Material	steel
Insulating part	PBT GF30
Actuating pin	Surface hardened steel, nickel plated
Protection	IP6K9K
Vibration	5g / 100 - 1000Hz
Actuation	axial or side
Operating travel	optional 4 - 6mm
Operating force	optional 16 - 30N
Thread size	M18 x 1.5 = 50Nm / M20 x 1,5 = 50Nm
Mechanical life	up to 4,6 mio. cycles
Voltage range	5V ± 10% protected on-board voltage

Dimensions with Bayonet Connector

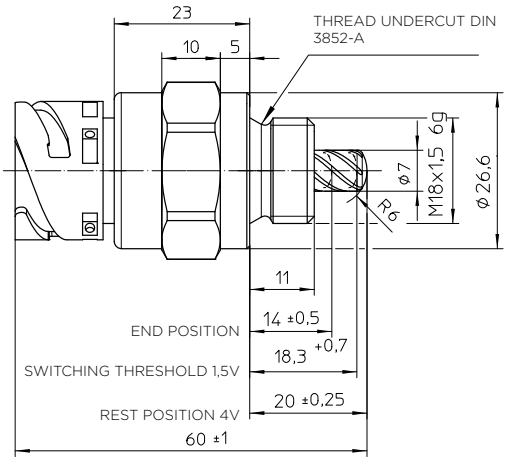
44-04-001

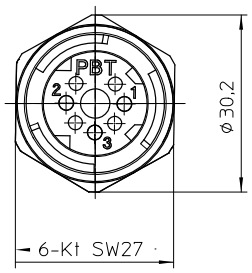


44-04-002

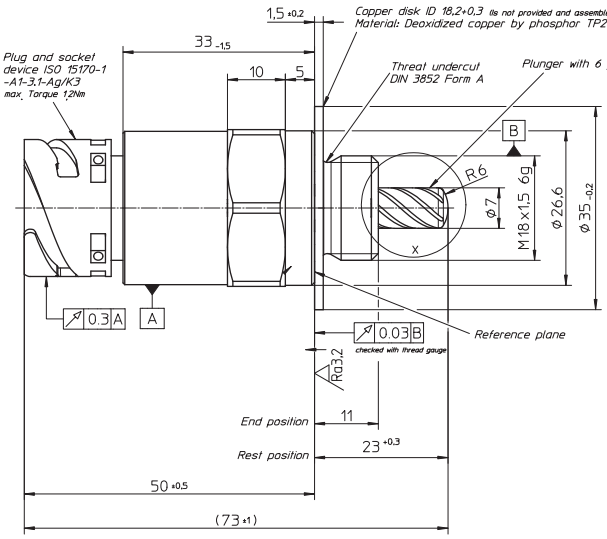


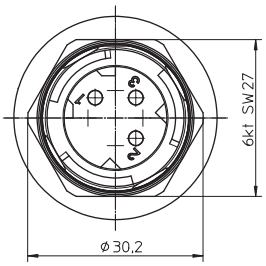
44-04-003

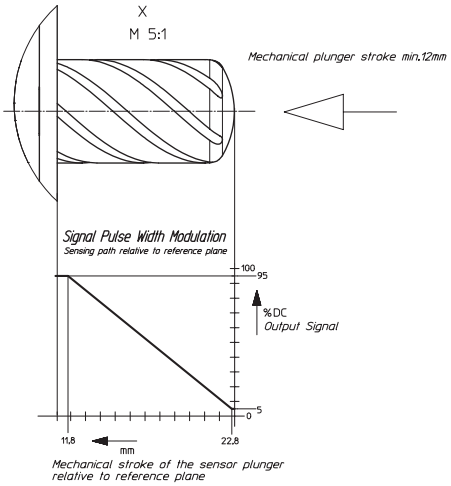




44-05-001







te.com

K1166728 | Version 08/2020