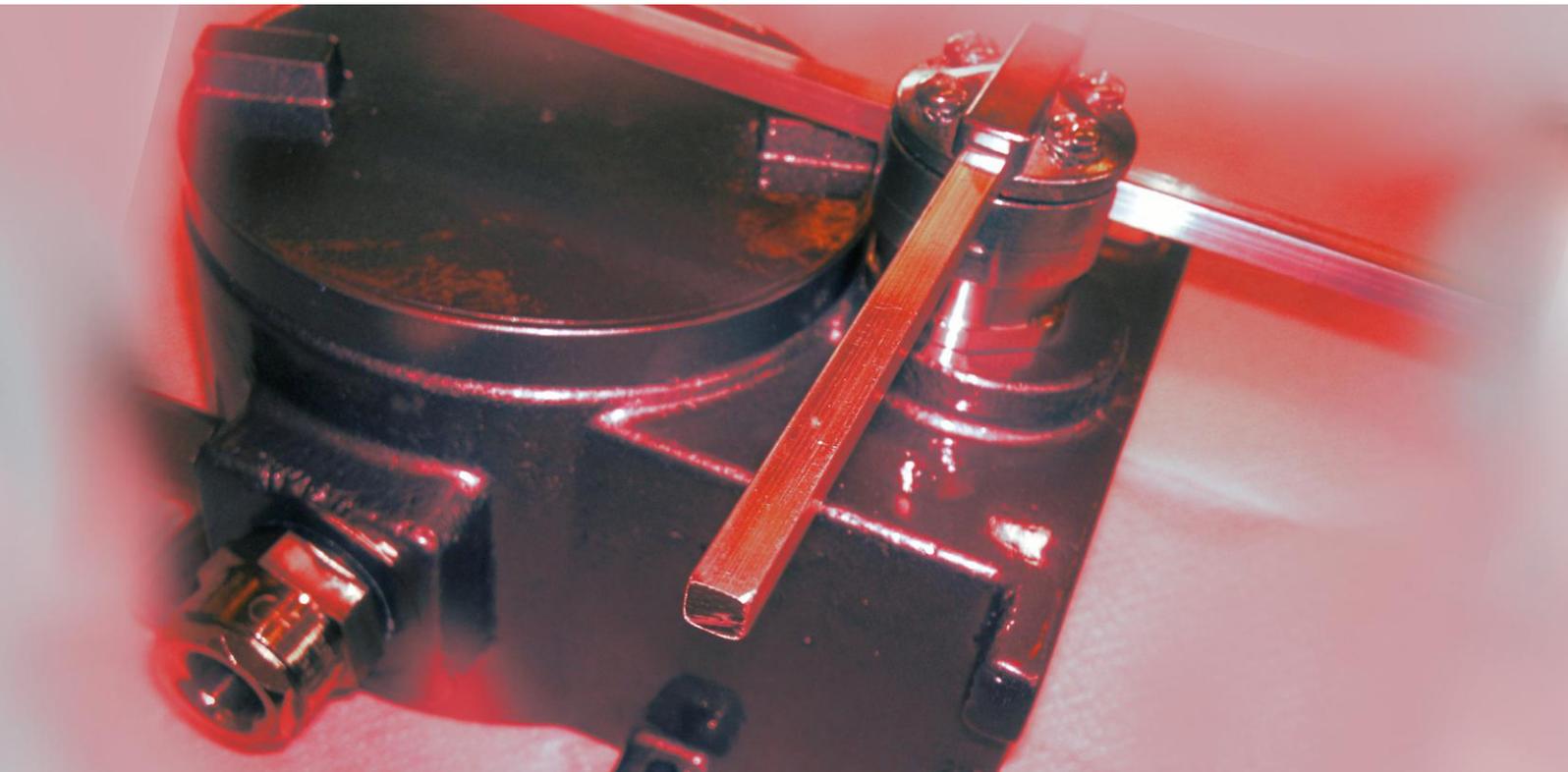


# Limitex



**Rotary and position limit switches for  
Hazardous Areas**

The **Limitex** rotary limit switch is used to control the positioning in Hazardous Location Areas.

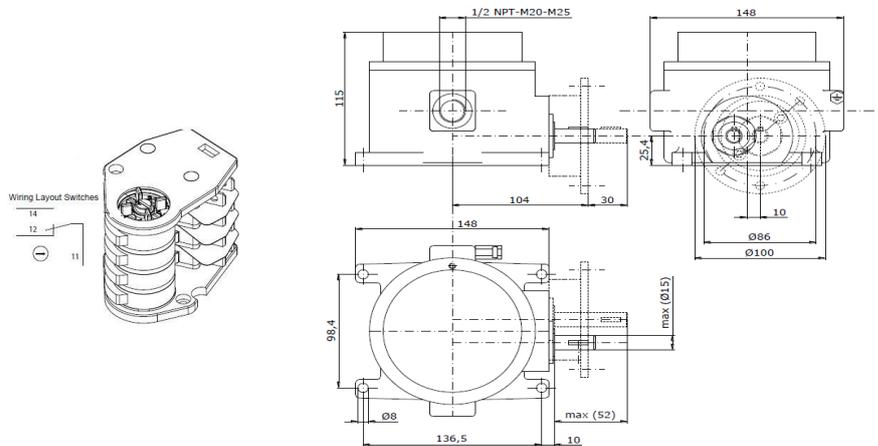


A worm gear and a helical toothed gear combined with one or more pairs of straight toothed gears are used for the transmission of the movement from the input shaft to the internal sensor. Revolution ratios ranging from 1:15 to 1:150 result from the use of different combinations of gear wheels between the input shaft and the output shaft, which is connected to the cams operating the switches.

**Limitex** rotary limit switches are built with a strong cast iron case and modular adaptor with feet of flange for the coupling of the units driving the switch. Transmission and gear driving shafts are made of stainless steel to prevent oxidation and wear. The gear wheels and the driving bushes are made of self-lubricating techno-polymer material, suitably chosen to reduce the wear to a minimum and to maintain the accuracy of the couplings over time.

**Limitex** rotary limit switches are the strong and reliable solution for any positioning control requirement in the Hazardous Location Areas.

- Rated operational current: 3 A
- Rated operational voltage: 250 V
- Rated thermal current: 10 A
- Rated insulation voltage: 300 V~
- Mechanical life:  $1 \times 10^6$  operations
- Connections: 6.3 mm Faston taps
- Available Ratios: 1:15 – 1:20 – 1:25 – 1:50 – 1:75 – 1:100 – 1:150 (others on request)
- 2 or 4 contacts version



The **Limitex** position limit switches is used to control the movement in Hazardous Location Areas.



The **Limitex** position limit switches are designed for the motion position control using a cross bar system. They are suitable for application in Hazardous Areas and aggressive environment.

**Limitex** rotary limit switches are built with a strong cast iron case and modular adaptor with feet for the coupling of the units driving the switch. They are completely closed and IP66 protected.

- Rated operational current: 3 A
  - Rated operational voltage: 250 V
  - Rated thermal current: 10 A
  - Rated insulation voltage: 500 V~
  - Mechanical life:  $1 \times 10^6$  operations
  - Connections: screw-type terminals
  - Wires: 1x2.5 mm<sup>2</sup>, 2x1.5 mm<sup>2</sup>
- Cross rod with 4 maintained positions**
- Pre-travel angle for rotation contact operation : 49°
  - Maximum rotation angle for each maintained position : 90°
  - Average angle for the mechanical tripping : 48°
  - Maintained positions each: 90°
  - Maximum impact speed 1.35 m/s

