

Tunnel detector (divisible)

Type: TU – Digital 2 / M-Pulse2pro



Type: TU

APPLICATION

The TU sensor serves for retrofitting a metal detector on existing lines as well as for mounting on conveyor belts and chutes that cannot be split. Though it is possible to split the sensor for mounting and to reassemble it

afterwards, the tunnel detector TU provides highest sensitivity for metal detection. Due to this characteristics and the possible fade-out of vibrations and of the product effect the sensor can be applied almost universally. Con-

trary to other sensors this one is completely made of stainless steel. This allows application in the plastics as well as in the food industry.

FUNCTION

Contrary to classic metal sensors the working principle of this device is based on a system of three coils. This enables the user to analyze signals precisely and

to draw conclusions on their origin. By this it is for example possible to distinguish the signals into vibration, product or metal. This additional data allows a

more sensible reaction on metallic residua. The sensor is maintenance- and calibration-free.

HANDLING

Depending on the operating electronics the handling is realised via a membrane keyboard and a LC-display. Thus all important

parameters can be viewed easily and fast and changed if necessary. The sensitivity of the detector also is adjustable this way.

Detailed information is stated in the documentation of the electronic Digital2 and M-Pulse2pro.

MOUNTING

The sensing range of the sensor partially is situated above and under the opening of the detector. Big metallic pieces can already be detected in this sector. In order to guarantee the accurate

functioning of the sensor, these sectors must be kept free of metal. This so-called metal-free zones are divided into two types:

- Metal-free zones for movable pieces

- Metal-free zones for non-movable pieces

The dimension of these zones are specified in the particular data sheets.

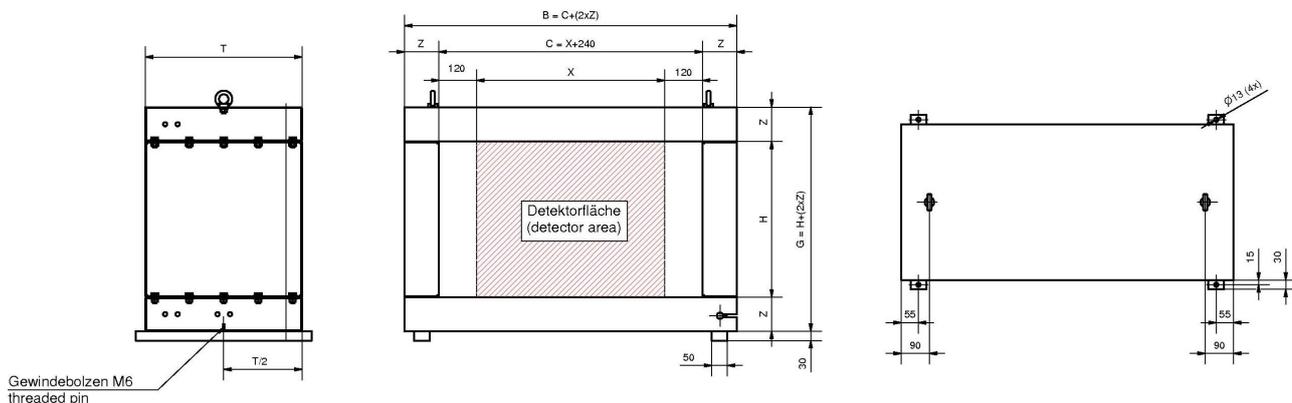
Type: TU

TECHNICAL DATA

Type TU 300x100 .. TU 2500x800	
Mechanical data	
Active aperture	height: 300 – 800 mm (50 mm steps)
Active aperture	width: 300 – 1.600 mm (100 mm steps)
Material	stainless steel (interior zone: epoxy)
Mounting	4x drill hole
Metall free zone for static parts	1,0 x sensor height
Metall free zone for moving parts ²	1,5 x sensor height
Conditions of use	
Storage temperature	-10 – 50°C
Operating temperature	0 – 50°C
Protection class	IP54
Electrical connection	Supply via control unit (Attached with 3 m cable).

Order code (example): Electronic: Digital2 Type: TU Dimension [mm]: sensor width X * sensor height H
 (e.g. Digital2 TU 1200x350)

DIMENSION



Dimension H	300 – 800 mm	> 800 mm
Dimension T	500 mm	on request
Dimension Z	110 mm	on request

1) Large metallic pieces can cause faulty activation even from great distances. The data refers to smaller pieces like deviating pulleys etc. For precise information please contact our service or sales department.