

# Photoelectric scanning head

Photoelectric scanning head together with electricity meter tester Calport100 is designed for detecting number of rotating disc turns in Ferrari electricity meters. Scanning head can detect black or red mark on the meter's rotating disc and because of self teaching function it can be used in different watt-hour meter design.



CF101

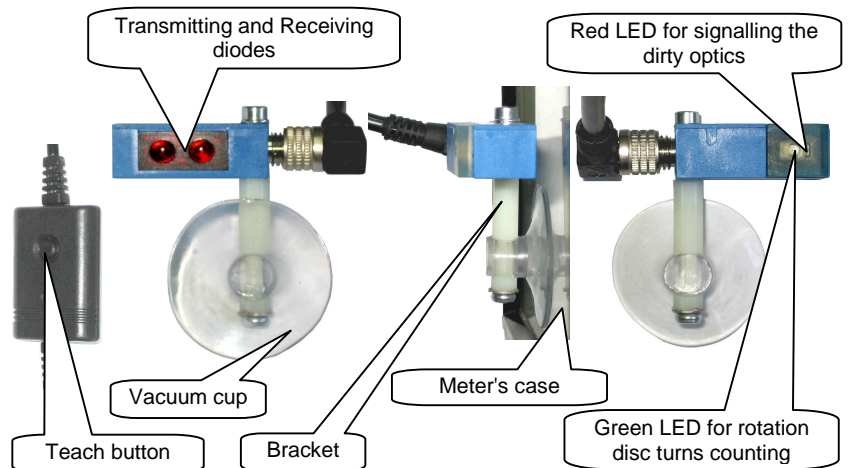
## CF101 Scanning head for Ferrari meters

- Mounting to meter by vacuum cup
- Small dimensions and weight
- Requires no adjustment
- Teach function

Mounting instruction and users manual:

- make the vacuum cup a little wet,
- put scanning head's vacuum cup in front of the flat part of the tested meter, in the way, that the scanning head's case will be in parallel to the rotating disc and the light from the transmitting diode will illuminate the central part of rotating disc edge,
- turning the scanning head around bracket, change the distance of transmitting diode from rotating disc to the moment, that green diode on the scanning head starts flashing in case on the mark on rotating disc; in other case the green diode should be off,
- if green LED doesn't flash in front of mark on rotating disc or LED flashes too often, one should start self teaching function by pressing button on the scanning head till the moment of fast green LED flashing,
- scanning head can be dismantled by means of small screwdriver pushed between vacuum cup and meter's case (attention: pulling the scanning head out by the case can destroy it).

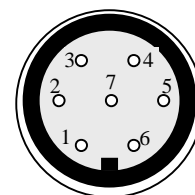
Attention: the red diode on the back of scanning head signals the dirty optics.



## PARAMETERS OF THE CF101 SCANNING HEAD

Power Supply Vcc	10...30V
Supply current	typ. 15mA@12V and max 20mA
Output	voltage $U_{LO}=0...0,5V$ ; $U_{HI}=5...(Vcc-4)V$ $R_{OUT}=2,2k$
Sensitivity distance	0...10mm
Connector type	plug C091A T3475-001 Amphenol

PINS DESCRIPTION	
Pin	Description
1, 2, 3, 6	NC – not connected
4	Ground
5	Power Supply +24V
7	Output



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