



Model Number

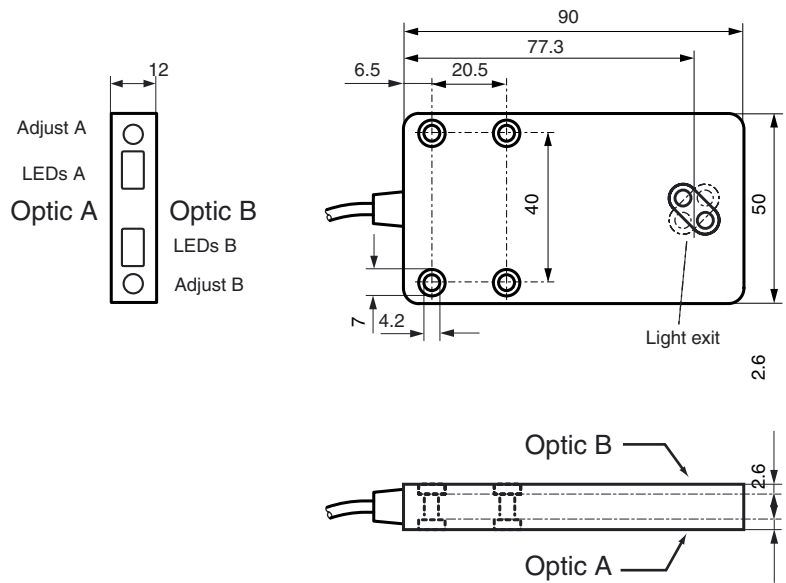
OBV10-F59-E22-0,1M-V1

Diffuse mode sensor
with 4-pin, M12 connector

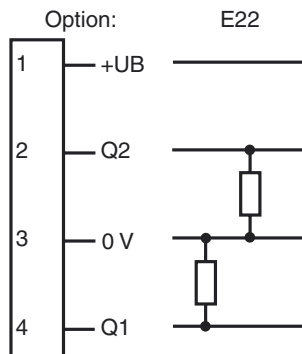
Features

- Specifically for quality checks on welding caps
- Sensing range 14 mm on copper electrode
- Pre-fault indication
- Scratch resistant mineral glass lens
- Accessory adjustment aid OJH-F59
- Protection degree IP65

Dimensions



Electrical connection



○ = Light on
● = Dark on

Release date: 2004-01-27 11:02 Date of issue: 2011-01-26 099287_ENG.xml

Technical data**General specifications**

Detection range	6 ... 14 mm
Reference target	Copper welding-electrode 6 mm
Light type	660 nm visible red light
Ambient light limit	≤ 15000 Lux sun light ≤ 7500 Lux halogen light

Indicators/operating means

Operating display	LED green: Signal strength optimal LED yellow: switching state LED red: Pre-fault indication
Controls	sensitivity adjustment

Electrical specifications

Operating voltage	U_B	10 ... 30 V DC
No-load supply current	I_0	≤ 30 mA

Output

Switching type	light on	
Signal output	2 switch outputs PNP, NO	
Switching current	200 mA	
Voltage drop	U_d	≤ 2 V
Switching frequency	f	≤ 80 Hz

Standard conformity

Standards	EN 60947-5-2
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Ambient conditions

Ambient temperature	0 ... 50 °C (32 ... 122 °F)
Storage temperature	-30 ... 70 °C (-22 ... 158 °F)

Mechanical specifications

Protection degree	IP65 according to EN 60529
Connection	V1 connector (M12 x 1), 4-pin
Material	
Housing	ABS
Optical face	Scratch resistant mineral glass lens
Mass	80 g

Approvals and certificates

CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.
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Indicators/Outputs

	Output	LED	LED	LED	Electrode status
					insufficient
			red		sufficient
		yellow			appropriate
				green	best
					overload

Signal strength ↓