



TECHNICAL DATASHEET OFI 04 and OFI 07 Rupture Indicators

Optical rupture indicators Donadon OFI 04 and OFI 07 are very simple and reliable instruments for detecting bursting of discs. The terminals of the optical fibres are installed in the disc holder in a suitable position and are connected to an amplifier. Light transmission between the two optical fibres is interrupted by the bursting of the disc and a signal is sent to the plant's safety system. If the amplifier is in an ATEX classified zone 1, 21, 2, 22, it must be installed inside an Ex d certified box. There are no electrical or moving parts in contact with the equipment to be controlled and therefore OFI indicators are not an ignition source. OFI 04 and OFI 07 indicators are not damaged by the opening of the disc and therefore do not need to be replaced. Cleaning protection slides is recommended. OFI 04 and OFI 07 indicate the opening of the disc for any maintenance or replacement. Zone installation depends on barrier type:

- Ex ia barrier --> zone 0; 20; 1; 21; 2; 22
- Ex ib barrier --> zone 1; 21; 2; 22

TECHNICAL DATA

Technical optical fibre properties

MODEL	OFI 04	OFI 07
OPTICAL FIBRE	Plastic	Glass with steel protection
OPERATING TEMPERATURE	From -55 to +70°C/+105°C	From -40°C to +250°C
MINIMUM BENDING RADIUS	R25	R23

Technical amplifier properties

MODEL	OFI 04	OFI 07
AMPLIFIER SUPPLY POWER	12-24 VDC	
AMPLIFIER CONSUMPTION	45 mA max	
OPERATING TEMPERATURE	From -10°C to +60°C	
FEEDBACK TIME	1 msec	
DEGREE OF PROTECTION	IP64	
AMPLIFIER MATERIAL	ABS	
RUPTURE DISK	DCD , DIE , LPD , SCD , SCR , Y90 , KRD	