

Oil Level Monitor - ICG360R-D series

油位监视器 - ICG360R-D 系列

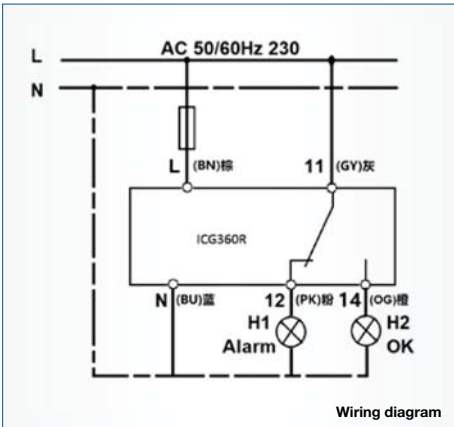


APPLICATION:

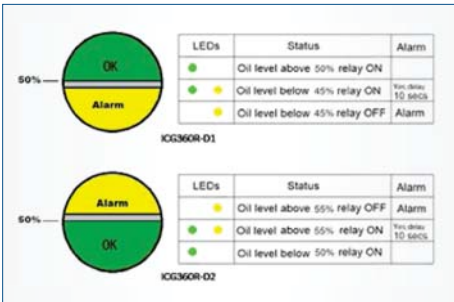
The ICG360R-D monitors are designed for refrigeration systems requiring oil level monitoring and alarm, mainly used for oil separators, reservoirs and drain tanks, etc.

FUNCTIONAL DESCRIPTION:

- * ICG360R-D uses a Hall sensor to measure the oil level. Unaffected by foaming oil or light a magnetic float changes its position according to the oil level. The Hall sensor converts these magnetic field changes into an equivalent signal, which is used by the integrated electronic controller to monitor the actual oil level by LEDs.
- * If the oil level drops into the yellow zone and after a delay time of 10 seconds, ICG360R-D1 generates an alarm signal, the alarm contact (SPDT) changes into alarm state and the green LED turns off. If the oil level comes back to normal, the alarm will be reset.
- * ICG360R-D2 is mainly used for high oil level monitoring.



SIGHT GLASS LEVEL CONTROL ZONE:



ORDER CODE:

- * ICG360R-D1: for low-level oil monitoring.
- * ICG360R-D2: for high-level oil monitoring.

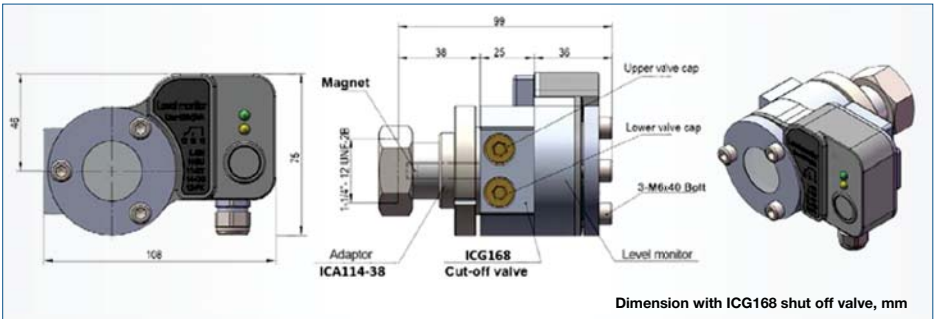
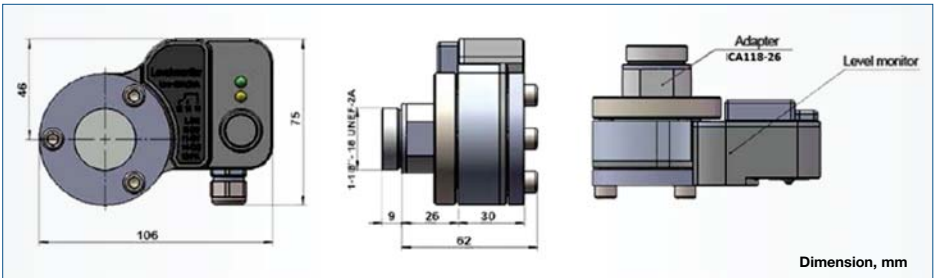
SPECIFICATIONS:

Item	Description
Supply voltage	AC 50/60Hz 230V+15% ... -20%3VA
Ambient / storage temp.	-30°C ... +70°C
Humidity	10 ... 95%, without condensation
Medium temp.	Max.+100°C, Max.+120°C (<720h) Min.-30°C (no frost for a long time on the shell)*
Delay alarm	10sec +/- 2sec
Working / test pressure	60bar / 69bar
Relay contact (SPDT)	AC15: 2.5A, 250VAC DC12: 5A, 24VDC
Connection type	Cable 5 x AWG-18#, L = 2m, color coded
Material	Aluminum; PA6/PA66+GF
Permitted oils	Standard mineral and ester oil, without additives
Medium compatibility	HFC, HCFC, CO ₂ (subcritical)
Protection class	IP65 (EN 60529)
Mounting position	Horizontal, +/-1°
Weight	Approx. 1kg (with adaptor ICA118)

* ICG360R electric control box has a waterproof potting seal, which can withstand short-term frost and dew, but only for IP65.

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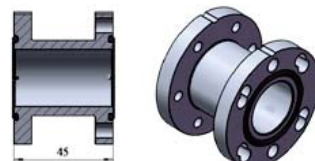
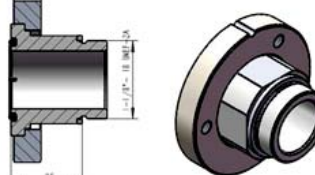
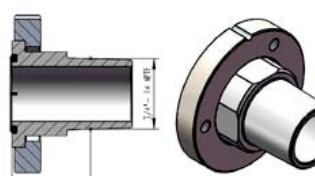
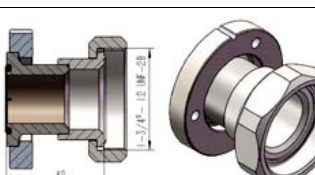
APPLICATION FOR RESERVOIR OIL MONITORING:



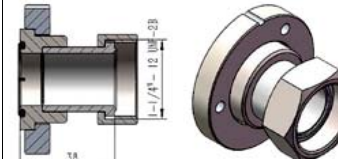
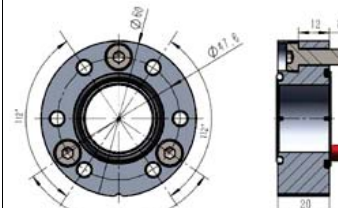
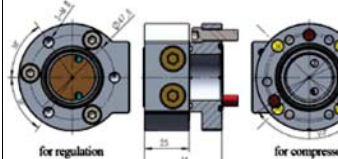
Adaptor For Oil Level Monitor / Regulator 适配器

APPLICATION:

ICA series adaptors can be used for the connection of oil level regulators, monitors and compressors in major brands, including but not limited to: Trax Oil OM3/OW3, Emerson OMB, DEKA COM(L), TEKLAB TK3, AC&R Optron/SN series, ESK schulze ERM2-0-BC/ORS-0-BC, Carly ELECTROIL, FP ERL. etc.

Description	Substitute for	Suitable for compressors	Dimensions, mm
ICA34F : 3-/4-hole flange adaptor	OMB-AUA, P/N 063 521 OM0-CUA, P/N 805 037 OM0-CCC, P/N 805 041	Arctic Circle G2, G4, G6 Bitzer 4VC, 4TC, 4TE, 4PC, 4NC, 4J, 4H, 4G, 6J, 6H, 6F, 8GC, 8FC Bock HA, HG (except G/HA-34/22) Copeland 4M & 6M, D2, D3, D4, D6, D9, 4CC, 6CC, ZBH, D8D, D8S Dorin all KP, K series Frascold A, B, D, F, S, V, W, Z, A-SK, D-SK, F-SK, Q-SK, S-SK series	
ICA118 : 1-1/8"-18 UNEF-2A screw adaptor	OMB-CO2, P/N 066 692 OM0-CBB, P/N 805 038	Bitzer 2KC, 2JC, 2HC, 2GC, 2FC, 2EC, 2DC, 2CC, 4FC, 4EC, 4DC, 4CC Bock HA 12/22/34, HG 12/22/34 Dorin all H series, K100C, K150C, K180C, K200CC, K230CS, K235CC, K240SB, K40CC, K50CS, K75CC/CS L'Unité Herm TAH, TAG Maneurop LT, MT, SM, SZ	
ICA34N : 3/4"-14 NPTF screw adaptor	OMB-ACA, P/N 065 668 OM0-CCA, P/N 805 039	Bitzer ZL, ZM series Copeland ZB15 to ZB48, ZBD21 to ZBD45 – until 06/2014 ZB56, 75, 92, 11 until 05/2012 ZF06 to ZF25 until 06/2014 ZF24 to ZF48 until 05/2012 ZS21 to ZS45 until 06/2014 ZS56 to ZS11 until 05/2012 Trank K series	
ICA134 : 1-3/4"-12 UNF-2B screw adaptor	OMB-ACE, P/N 066 078 OM0-CCD, P/N 805 042	Copeland ZB130, ZB150, ZB190, ZB220, ZF196, ZF122, ZF140, ZH, ZR90, ZR11, ZR12, ZR16, ZR19, ZR250 to ZR380, ZS56 to ZS11	

Adaptor For Oil Level Monitor / Regulator 适配器

Description	Substitute for	Suitable for compressors	Dimensions, mm
ICA114 : 1-1/4"-12 UNEF-2B screw adaptor	OMB-ACF, P/N 066 650 OM0-CCE, P/N 805 043	INVOTEC YM, YF series Copeland ZB15 to ZB114, ZF06 to ZF54, ZF120 to ZF181, ZBD21 to ZBD45 after 06/2014, ZS21 to ZS45 after 06/2014	
ICA320F : 3 hole flange adaptor	Only for ICG360/580/680, OM3/OW3 DEKA-COM(L) PF-ERL	INVOTEC YSM, YSF series Panasonic 3CC, 2CC, ACC, C-SC series Frascold A, B, D, Q, S, V, W, Z, A-SK, D-SK, F-SK, Q-SK, S-SK series	
168F34 : 3-/4- hole flange adaptor with shut-off valve	OMB-AUA, P/N 063 521 OM0-CUA, P/N 805 037 OM0-CCC, P/N 805 041	Arctic Circle G2, G4, G6 Bitzer 4VC, 4TC, 4PC, 4NC, 4J, 4H, 4G, 6J, 6H, 6G, 6F, 8GC, 8FC Bock HA, HG (except G/HA-34/22), O series Copeland 4M & 6M, D2, D3, D4, D6, D9, 4CC, 6CC, ZBH, D8D, D8S Dorin all KP, K series Frascold A, B, D, F, S, V, W, Z, A-SK, D-SK, F-SK, Q-SK, S-SK	
ICA118CSH : 1-1/8"-18 UNEF-2A-CSH elongated screw adaptor		FUSHENG SRL-MS, SRL-DS series RefComp SRC-S, SRC-XS series HANBELL RC2 series Bitzer CSK, CSH series	