

Type Approval Certificate

This is to certify that the undernoted products have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER

Finder SpA

PLACE OF

Via Drubiaglio, 14

PRODUCTION

10040 Almese (Turin)

Italy

DESCRIPTION

Series 46 Miniature relays

TYPES

46.52 and 46.61

APPLICATION

For use in environmental categories ENV1, ENV2 and ENV3 as

defined in LR Test Specification No 1: 2002.

SPECIFIED STANDARDS

EN 61810-1:2008 and EN 60664-1:2007

RATINGS

1 and 2 pole relays. 46.52 rated current: 8A and 46.61 rated current:

16A. Rated Voltage: 250V.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 12/00032 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No.

12/00032

Issue Date

31 May 2012

Expiry Date

30 May 2017

Sheet

1 of 1

M.R. Greenhalgh London Design Support Office Lloyd's Register EMEA

MRSM

Lloyd's Register EMEA 71 Fenchurch Street, London EC3M 4BS

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Lloyd's Register EMEA (London Office) LONDON DESIGN SUPPORT OFFICE

71 Fenchurch Street, London, EC3M 4BS Telephone 020 7709 9166 Fax 020 7488 4796 Email tad@lr.org

Page	
1 of 1	
Document number 12/00032	
Issue number 1	

DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications
31 May 2012	LDSO/ETS/MRG/WP10716976/W03019676

LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.

Issued to: FINDER SPA for: SERIES 46 MINIATURE RELAYS TYPE APPROVAL CERTIFICATE No. 12/00032

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Approval Services Request for Quotation form	3 February 2012
LR Milan Visit Report	2 May 2012

TEST REPORTS

EC Declaration of Conformity	18 November 2009
Finder S.p.A catalogue	•
Finder S.p.A Laboratory Test Report 200, Mod. LO910_E, rev 2	28 February 2012
IMQ S.p.A. Test Report, CV02LM00001/1	26 January 2012
IMQ S.p.A. Test Report, CV02LM00001	26 January 2012
IMQ S.p.A. Notification of Test Results, Reference 30077/IMQ	9 February 2010
IMQ S.p.A. Approval Certificate E9971	23 December 2009

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.

M.R. Greenhalgh

London Design Support Office

MLSM

Lloyd's Register EMEA

Part 2 Relays - Magnetic (Part 2)

	Remarks Cert. No.				Expires: 30 May 12/00032	2017				-
	Category/ Additional Tests			ENVI	ENV2	ENV3	(2002)			
	Contact Rating D.C. Operational Operating Time Current Ith Voltage Current le Constant Amperes Ue Amperes Secs.									 _
		ntact Rating D.C.	ating Time	yeres Secs.			•••••		•····•	
	Contact Rating		perational Oper Voltage Curr	Ue Am		-				
		A.C. (50/60Hz)	Power Factor	10101						
			Operating Current	Amperes			80		16	
			Operational Voltage	å			250		250	
		Utilization	Category							
	Standard Category Operational Operating Voltage Current Ue Amperes				EN 61810-	1:2008	and	EN 60664-	1:2007	 _
	Туре			Series 46 Miniature	relays:	46.52		46.61	 1 and 2 mole relase	
The state of the s		Producer/	Licerce No.		Finder Sp.4,	Via Drublaglio, 14,	10040 Aimese	(Turin),	Italy.	-