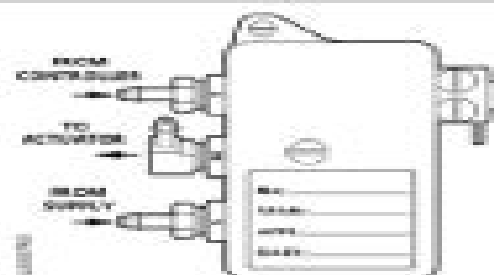


Powers™ Controls

RL 147 Positioning Relay



Description	The RL 147 Positioning Relay is a compact, pneumatic device designed to provide positive positioning of a pneumatic valve or damper actuator. The positioner provides supply air pressure against the actuator diaphragm to initiate stem or shaft movement. The actuator spring reverses the stem or shaft movement.							
Features	<ul style="list-style-type: none"> • Rapid response • Good repeatability • Adjustable start point pressure • Adjustable span • Low air consumption 							
Product Numbers	See Table 1.							
Specifications	<table> <tr> <td>Operating</td><td> Ambient Temperature Range Storage: -20 to 160°F (-29 to 71°C) Operation: 35 to 160°F (2 to 71°C) Maximum Pilot Signal Pressure 30 psig (207 kPa) Maximum Supply Air Pressure 60 psig (413 kPa) Start Point Adjustment Range 3 to 10 psig (21 to 69 kPa) Operating Span Adjustment Range 3 to 12 psig (21 to 83 kPa) Response 1/10 psi input change (0.7 kPa) Air Capacity (@ ΔP = 2 psi (14 kPa)) 410 scfm (112 m³/s) Air Consumption 40 scfm (11 m³/s) </td><td></td></tr> <tr> <td>Physical</td><td> Air Connections 1/8-inch NPT Body Materials Zinc Cover Electro Plated Steel Dimensions See Figure 1-4 Shipping Weight, with kit 2 lb (0.9 kg) </td><td></td></tr> </table>		Operating	Ambient Temperature Range Storage: -20 to 160°F (-29 to 71°C) Operation: 35 to 160°F (2 to 71°C) Maximum Pilot Signal Pressure 30 psig (207 kPa) Maximum Supply Air Pressure 60 psig (413 kPa) Start Point Adjustment Range 3 to 10 psig (21 to 69 kPa) Operating Span Adjustment Range 3 to 12 psig (21 to 83 kPa) Response 1/10 psi input change (0.7 kPa) Air Capacity (@ ΔP = 2 psi (14 kPa)) 410 scfm (112 m³/s) Air Consumption 40 scfm (11 m³/s)		Physical	Air Connections 1/8-inch NPT Body Materials Zinc Cover Electro Plated Steel Dimensions See Figure 1-4 Shipping Weight, with kit 2 lb (0.9 kg)	
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Physical	Air Connections 1/8-inch NPT Body Materials Zinc Cover Electro Plated Steel Dimensions See Figure 1-4 Shipping Weight, with kit 2 lb (0.9 kg)							

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Richard Bailey



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Offshore Electrical Engineering Manual Geoff MacAngus-Gerrard,2017-11-06 Offshore Electrical Engineering Manual Second Edition is for electrical engineers working on offshore projects who require detailed knowledge of an array of equipment and power distribution systems The book begins with coverage of different types of insulation hot spot temperatures temperature rise ambient air temperatures basis of machine ratings method of measurement of temperature rise by resistance measurement of ambient air temperature This is followed by coverage of AC generators automatic voltage regulators AC switchgear transformers and programmable electronic systems The emphasis throughout is on practical ready to apply techniques that yield immediate and cost effective benefits The majority of the systems covered in the book operate at a nominal voltage of 24 y dc and although it is not necessary for each of the systems to have separate battery and battery charger systems the grouping criteria require more detailed discussion The book also provides information on equipment such as dual chargers and batteries for certain vital systems switchgear tripping closing and engine start batteries which are dedicated to the equipment they supply In the case of engines which drive fire pumps duplicate charges and batteries are also required Packed with charts tables and diagrams this work is intended to be of interest to both technical readers and to general readers It covers electrical engineering in offshore situations with much of the information gained in the North Sea Some topics covered are offshore power requirements generator selection process drivers and starting requirements control and monitoring systems and cabling and equipment installation Discusses how to perform inspections of electrical and instrument systems on equipment using appropriate regulations and specifications Explains how to ensure electrical systems components are maintained and production is uninterrupted Demonstrates how to repair modify and install electrical instruments ensuring compliance with current regulations and specifications Covers specification management and technical evaluation of offshore electrical system design Features evaluation and optimization of electrical system options including DC AC selection and offshore cabling designs

Building Control Systems ,2000

Beginning with an overview of the benefits of the modern building control system the authors go on to describe the different controls and their applications and include advice on their set up and tuning for stable operation *Pennsylvania Boiler Auxiliary Systems Manual* Pennsylvania Energy Office,1991* **Moody's International Manual** ,1997 **How to Design an HVAC System: A Comprehensive Guide** Charles Nehme, In an era where our lives are increasingly spent indoors the quality of our built environments has never been more paramount From the air we breathe to the thermal comfort we experience the unseen forces of heating ventilation and air conditioning HVAC systems silently orchestrate our well being productivity and health Yet for many the intricate workings of HVAC remain a mystery often relegated to an afterthought in the grand scheme of architectural design This oversight however comes at a significant cost not only in terms of comfort and health but also in substantial energy consumption and environmental impact Having dedicated over three decades to the dynamic world of HVAC and MEP consulting across diverse global landscapes I ve witnessed firsthand the transformative power of well designed systems and the profound consequences of their neglect From the complex industrial facilities that power our economies to the towering commercial structures where innovation thrives and the intimate residential spaces we call home the principles of optimal air management remain universal yet their application demands nuanced understanding and precise execution This book *Mastering HVAC System Design A Comprehensive Guide* is born from that extensive experience and a deep seated commitment to demystifying the art and science of HVAC engineering It is crafted not just for seasoned professionals seeking to refine their expertise but also for aspiring engineers architects building owners and anyone keen to understand the critical backbone of modern structures My aim is to bridge the gap between theoretical knowledge and practical application providing a holistic framework that empowers you to design systems that are not only efficient and effective but also sustainable and resilient We will embark on a journey from the fundamental principles of heat transfer and psychrometrics through the meticulous process of load calculations to the intricate dance of equipment selection and sophisticated control strategies We will delve into the critical aspects of indoor air quality energy efficiency and the long term stewardship of these vital systems through proper commissioning and maintenance My hope is that this guide serves as your trusted companion illuminating the path to creating environments that are healthier more comfortable and significantly more sustainable for generations to come Let us design smarter buildings so we can all breathe better Charles Nehme Global HVAC and MEP Consultant

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