

Legrand 412654

Legrand 412654 Digital Programmable Timer Switch for Outdoor Lighting

User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and programming of the Legrand 412654 AlphaRex[®] D21 Digital Programmable Timer Switch. This modular device is designed for precise control of electrical loads, particularly outdoor lighting, with advanced features such as astronomical function and PC programming capabilities. Please read this manual carefully before installation and use to ensure safe and correct operation.



Figure 1: Front view of the Legrand 412654 Digital Programmable Timer Switch, showing the display and control buttons.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent personal injury or damage to the device:

- Installation and maintenance must be performed by a qualified electrician in accordance with national wiring regulations and local electrical codes.
- Ensure the main power supply is disconnected before commencing any installation or wiring work.
- Do not operate the device if it appears damaged.
- The device is designed for indoor installation within an electrical distribution board.
- The product conforms to VDE 0631 part 1 and part 2-7, EN 60730-1, and EN 60730-2-7 standards.

3. SETUP AND INSTALLATION

The Legrand 412654 timer switch is designed for quick and easy installation within a standard electrical distribution board.

3.1 Mounting

The device is a 2-module wide unit designed for DIN rail mounting. Securely clip it onto the DIN rail within your electrical panel.

3.2 Wiring

Follow the wiring diagram provided on the device and ensure correct connections for line (L), neutral (N), and the switched output. It is recommended to protect the timer with a 2A circuit breaker and the controlled appliance with a 16A circuit breaker.

- **Input Voltage:** 230 V AC, 50/60 Hz
- **Output:** 1 changeover contact, 16A, 250V~



Figure 2: Side view illustrating wiring terminals and product identification label.

3.3 Initial Power-Up

Upon initial power-up or after a prolonged power outage, the display may show "NO MAINS" or require initial time and date setting. The device has a 5-year power reserve for maintaining settings during power interruptions.



Figure 3: Display indicating "NO MAINS" when power is not supplied or during initial setup.

4. OPERATING INSTRUCTIONS

The Legrand 412654 offers various operating modes and programming options for flexible control.

4.1 Basic Navigation and Settings

Use the buttons below the display to navigate menus and adjust settings:

- **Menu/Escape Button:** Typically represented by a symbol (e.g., square or 'M'). Used to enter menus or go back.
- **Minus (-) Button:** Decreases values or navigates backward.
- **Plus (+) Button:** Increases values or navigates forward.
- **OK Button:** Confirms selections or enters sub-menus.

The display is backlit for improved visibility.

4.2 Programming Modes

The device supports up to 56 switching programs and various advanced functions:

- **Weekly Timer:** Program specific ON/OFF times for each day of the week.
- **Astronomical Function:** Automatically adjusts ON/OFF times based on sunrise and sunset, combinable with weekly programs. This feature eliminates the need for a separate light sensor.
- **Holiday Program:** Set specific periods during which normal programming is suspended.
- **Random Program:** Introduces slight variations to switching times for security purposes.
- **Manual Override:** Temporary or permanent manual ON/OFF control.
- **1-Hour Test:** Activates the output for a 1-hour test period.

4.3 Advanced Features

- **PIN Code Lock:** Protects programming from unauthorized changes.
- **Operating Hours Counter:** Tracks the total operating time of the connected load.
- **Automatic Summer/Winter Time Change:** The device automatically adjusts for daylight saving time.
- **PC Programming:** Programs can be created on a PC using AlphaSoft software and transferred to the device via a PC adapter (Legrand 412873) and data key (Legrand 412872).
- **Shortest Switching Time:** 1 second.
- **Zero-Crossing Switching:** Extends the life of the relay contacts and connected loads.

5. MAINTENANCE

The Legrand 412654 timer switch is designed for long-term, maintenance-free operation.

- **Cleaning:** To clean the device, gently wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Power Reserve:** The integrated battery provides a 5-year power reserve for settings and timekeeping during

power outages. No user intervention is required for this feature.

- **Component Replacement:** There are no user-serviceable parts inside the device. In case of malfunction, contact qualified personnel.

6. TROUBLESHOOTING

If you encounter issues with your Legrand 412654 timer switch, refer to the following common problems and solutions:

- **Device Display is Blank:**
 - Check if the main power supply to the distribution board is active.
 - Verify the circuit breaker protecting the timer (recommended 2A) is ON.
 - Ensure wiring connections (L and N) are secure and correct.
- **Programs Not Executing:**
 - Check the current operating mode (e.g., ensure it's not in manual override or holiday mode).
 - Verify the time and date settings are correct.
 - Ensure the program steps are correctly entered and activated.
 - Check for any active PIN code lock preventing changes.
- **Output Not Switching:**
 - Confirm the connected load is functioning correctly.
 - Check the circuit breaker protecting the load (recommended 16A).
 - Ensure the timer's output terminals are correctly wired to the load.
- **"NO MAINS" Message on Display:**
 - This indicates no main power supply. Check the power to the device as described above. The internal power reserve will maintain settings.

If the problem persists after following these steps, contact a qualified electrician or Legrand technical support.

7. SPECIFICATIONS

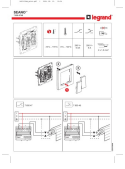
Feature	Specification
Brand	Legrand
Model Number	412654
Product Type	Digital Programmable Timer Switch
Channels	1
Switching Programs	56
Operating Voltage	230 V AC, 50/60 Hz
Output Contact	1 changeover contact
Max. Switching Current	16 A
Max. Switching Voltage	250 V~
Power Reserve	5 years
Time Accuracy	+/- 0.1 seconds/day
Shortest Switching Time	1 second
Dimensions (L x W x H)	5.6 x 6 x 8.5 cm
Weight	160 grams
Material	Polycarbonate (PC)
Color	Grey
Origin	Germany

8. WARRANTY AND SUPPORT

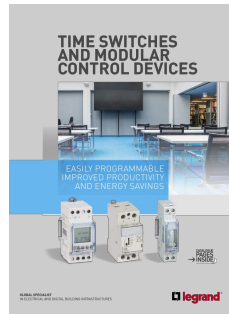
Legrand products are manufactured to high-quality standards. This product comes with a warranty as per local regulations. Spare parts availability is guaranteed for 5 years.

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact your local Legrand distributor or visit the official Legrand website for support contact information.

Always provide the model number (412654) and a detailed description of the issue when seeking support.

	Legrand Modular Devices and Distribution Boards 2025 Catalog Comprehensive catalog of Legrand modular devices and distribution boards for electrical installations and data distribution, featuring circuit breakers, residual current devices, surge protective devices, switches, and distribution boards. Includes product specifications, technical details, and ordering information.
	Legrand LE15130AA Roller Shutter and Blind Switch - Technical Specifications Comprehensive technical specifications for the Legrand LE15130AA roller shutter and blind switch. Details include electrical ratings (250V~ 6AX), operating and storage temperatures, wiring requirements (2 x 1.5 mm²), and mechanical features like locking and switching time.
	Legrand XL³ HP 6300 Electrical Distribution Enclosures and Accessories Catalog Comprehensive catalog for Legrand XL³ HP 6300 series electrical distribution enclosures, cabinets, and related accessories. Find technical specifications, selection tables, and part numbers for modular devices, mounting hardware, and connection systems.
	Legrand 600537 Dooxie 16A Black Matte 2P+T Socket User Guide User guide for the Legrand 600537 Dooxie 2P+T socket in black matte finish. Features technical specifications, installation instructions, safety guidelines, and warranty information for this 16A, 250V~ electrical socket.
	LEGRAND Clock for MG Engine - Bubendorff Product Details & Features Discover the LEGRAND clock (Product Ref: 229025) for Bubendorff MG engines. This 1-channel timer offers individual and group control for roller shutters, featuring clock functions for automated raising and lowering. Includes features, warranty, and installation video guide.
	Legrand XL³ HP 6300 Freestanding and Modular Industrial Enclosures Detailed technical specifications, dimensions, features, and accessories for the Legrand XL³ HP 6300 series of freestanding and modular industrial enclosures, designed for power distribution and automation applications. Includes material properties, resistance data, and compliance information.

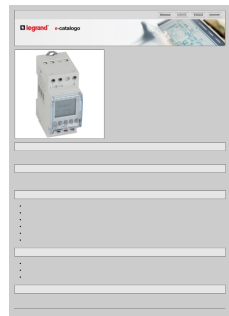
Documents - Legrand – 412654



[Legrand Time Switches and Modular Control Devices: AlphaRex³, MicroRex, CX3 Product Range](#)

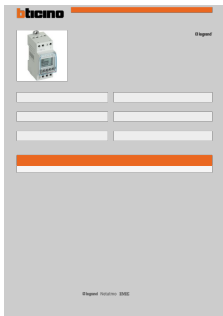
Explore the comprehensive range of Legrand time switches and modular control devices, including AlphaRex³ digital and Bluetooth r contactors. Features, specifications, and applications for energy saving and automation.

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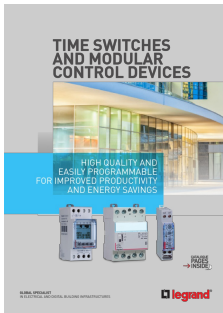
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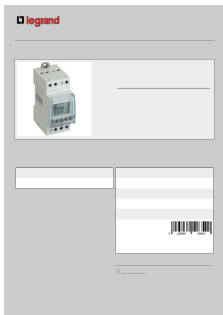
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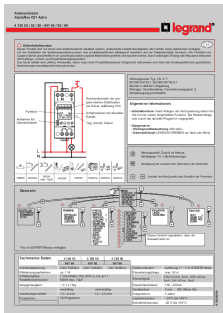
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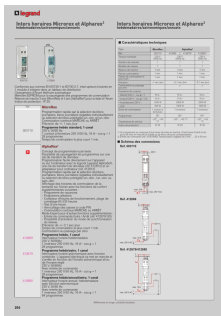
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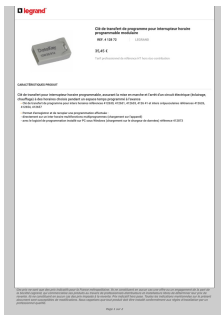
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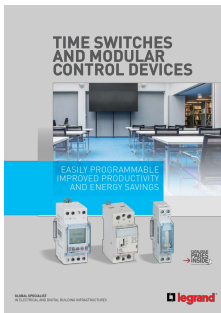
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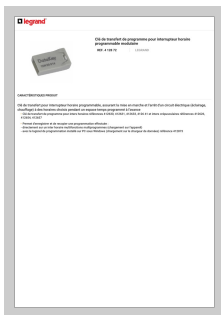
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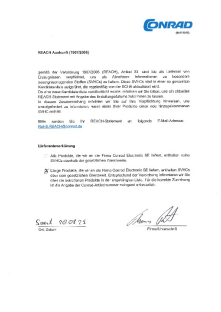
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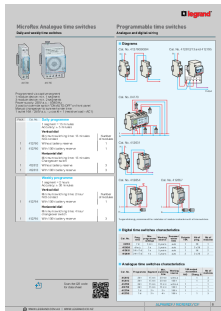
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[REACH-Auskunft und Produktkonformitätserklärung - Conrad Electronic SE](#)

Dokumentation zur REACH-Verordnung (1907/2006) von Conrad Electronic SE, die Informationen über besonders besorgniserregende Substanzen in der Liste.

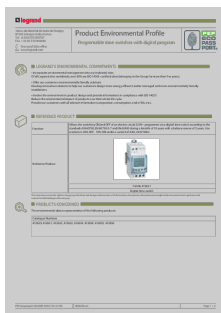
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[\[pdf\] User Manual Datasheet Diagram](#)

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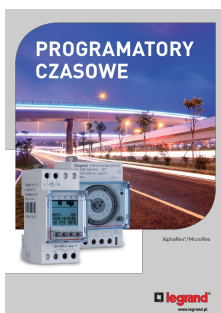
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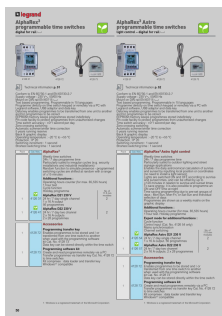
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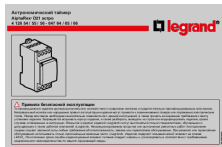
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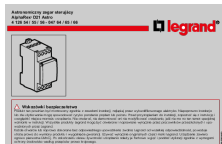
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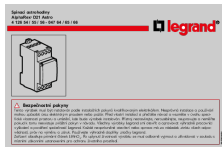
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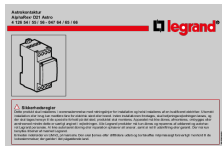
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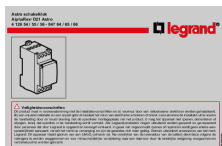
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Gebrauchsanleitung LEGR AlphaRex D21 astro 230V AC 412654 Adalbert Zajadacz GmbH Co KG 292568TR 03 assets legrand pim NP FT GT |||
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Gebrauchsanleitung LEGR AlphaRex D21 astro 230V AC 412654 Adalbert Zajadacz GmbH Co KG 292568NL 04 assets legrand pim NP FT GT |||
Astro schakelklok AlphaRex3 D21 Astro 4 126 54 / 55 / 56 - 047 64 / 65 / 66 Veiligheidsvoorschriften Dit product moet in overeenste
vakbekwame elektricien worden genstalleerd. Bij een onjuiste installatie en een onjuist gebruik bes...
lang:nl score:15 filesize: 1.6 M page_count: 27 document date: 2020-02-04



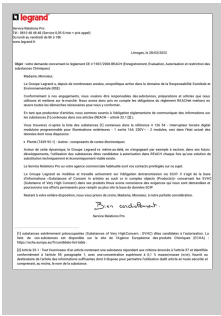
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03451 HL6316 20 03387 HL4120 HL6120 03434 HL6220 03452 HL6320 25 03388 HL4125 HL6125 03435 HL6225 03453 HL6325 32 03389 HL4132 Legrand Pov
superior protection Technical Performance Ease of Installation Proven Quality THE Global specialist ... nting 1 channel 2 channels D
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dodclif fr grpleg general MEDIAGRP NP FT GT 292568PT 04 Digitalschaltuhr Astro 230V AC 1K AlphaRex3D21A 412654 von legrand |||
Interruptor horrio astronmico AlphaRex3 D21 Astro 4 126 54 / 55 / 56 - 047 64 / 65 / 66 Indicaes de segurana A aplicao e/ou a mont
caso de um falso manuseio com este produto existe um perigo de vida devido a um choque causado...
lang:pt score:14 filesize: 1.63 M page_count: 27 document date: 2020-02-04



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Legrand fr Document de conformité CE 412654 Interrupteur horaire digital modulaire programmable pour illuminations extérieures 1 sortie 16A 250V~ 2 modules E Service Relations Pro T1 : 0810 48 48 48 Service 0,05 /min prix appel Du lundi au vendredi de 8h 18h www.legrand.fr Limoges, le 28 REACH Enregistrement, Evaluation, Autorisation et restriction des substances Chimiques Madame, ... lang:fr score:14 filesize: 26.33 K page_count: 1 document date: 2023-03-28



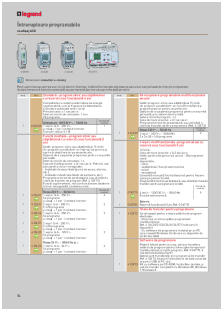
[pdf] User Manual

Gebruiksaanleitung LEGR AlphaRex D21 astro 230V AC 412654 Adalbert Zajadacz GmbH Co KG 292568PT 04 assets legrand pim NP FT GT ||| Interruptor horrio astronomico AlphaRex3 D21 Astro 4 126 54 / 55 / 56 - 047 64 / 65 / 66 Indicaes de segurana A aplicao e/ou a montagem caso de um falso manuseio com este produto existe um perigo de vida devido a um choque causado... lang:pt score:14 filesize: 1.63 M page_count: 27 document date: 2020-02-04



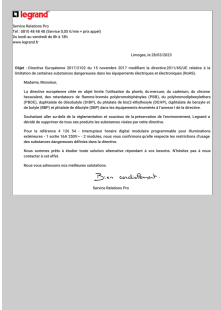
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Legrand fr 3245064 4126540 lite legrand sites default files 60 f6 f2 imprimer 412654 Interrupteur horaire digital modulaire programmable pour illuminations extérieures - 1 sortie 16A 250V~ - 2 modules REF. 4 126 54 LE programmable, assurant la mise en marche et l'arrêt d'un circuit électrique clairage, chauffage des horaires choisis... lang:fr score:14 filesize: 48.92 K page_count: 2 document date: 2022-01-25



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412654 legrand electriccasabrasov ro fisiere fisi ||| ntreruptoare programabile cu afiaj LCD 0 037 05 4 126 31 4 126 30 0 047 70 Dimensiuni consultai e-catalog Pentru pornirea sau oprirea unei perioade de timp pre-programate. Anulare temporar revenire automat sau perm... lang:it score:14 filesize: 1.39 M page_count: 2 document date: 2021-05-11



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Legrand fr Document de conformité CE 412654 Interrupteur horaire digital modulaire programmable pour illuminations extérieures 1 sortie 16A 250V~ 2 modules E Service Relations Pro T1 : 0810 48 48 48 Service 0,05 /min prix appel Du lundi au vendredi de 8h 18h www.legrand.fr Limoges, le 28 modifiant la directive 2011/65/UE relative la limitation de certaines substances dangereuses dans... lang:fr score:13 filesize: 22.88 K page_count: 1 document date: 2023-03-28

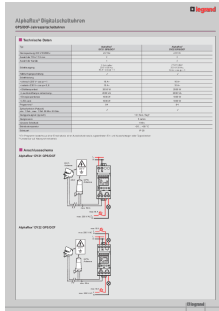


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GKV2 02 026 167 Verteilereinbau legrand de sites b2bde files Legrand |||

Schutzgerte Schalten und Melden 040081-1653m.eps Ergnzen Dimmer Zubehr VERTEILEREINBAU Rex ... D21 astro AlphaRe: 412641 412634 **412654** 412657 412629 412630 120 V - 24 V 1 50/60 Hz AC 50/60 Hz und DC 412632 412633 412643...

lang:de score:13 filesize: 23.06 M page_count: 142 document date: 2022-12-19



[pdf] User Manual

Programmübersicht Alles rund um Zeitschaltuhren Legrand Digitalschaltuhren AlphaRex3 Rex Zeitrelais legrand at sites b2bde files 2020 10 |||

AlphaRex3 Digitalschaltuhren GPS/DCF-Jahreszeitschaltuhren Q Technische Daten Typ Nennspannung 230 ... phaRex3 DY21/BLE 412641/722 412634/721 **412654**/723 412657/724 412629/725 412630/726 120 V, 50/60 Hz 412632 412642 412655 412658 24 ...

lang:de score:13 filesize: 545.65 K page_count: 9 document date: 2020-10-13



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Superior protection documents portalink net product 319499 |||

superior protection Technical Performance Ease of Installation Proven Quality Global specialist in e ... nting 1 channel 2 channels DI part no HL03705 5 RESIDENTIAL CIRCUIT PROTECTION Contactors Changeover Switches 2...

lang:en score:13 filesize: 2.54 M page_count: 16 document date: 2013-06-21



[pdf] User Manual Accessories Catalog

THE GLOBAL SPECIALIST IN ELECTRICAL AND HPM Switch state Function Channel number Socket for data key Ref 04781 Separate manual switch each chan document asset 00

LEGRAND.COM.AU THE GLOBAL SPECIALIST IN ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES 20172018 M ...

24 31 24 32 30 32 30 412641 **412654** 412657 412780 412790 412794 412795 412812 412813 412872 412900 412902 412903 511

lang:en score:13 filesize: 20.41 M page_count: 384 document date: 2017-09-27

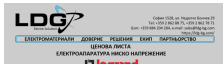


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VERTEILEREINBAU Schutzgerte Schalten und Melden Ergnzen Dimmer Zubehr Rex Zeitschalttechnik 20 ... D21 astro AlphaRe 412641 412634 **412654** 412657 412629 412630 120 V - 24 V 1 50/60 Hz AC 50/60 Hz und DC 412632 412633 412643...

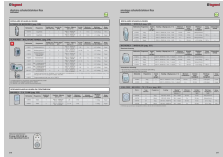
lang:de score:13 filesize: 7.72 M page_count: 142 document date: 2023-03-03



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СЕРВИСНЫЙ ЦЕНТР
ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ
ЛЕГРАНД

№	Наименование	Единица измерения	Цена
1	Автоматический выключатель	шт.	1,20
2	Автоматический выключатель	шт.	1,20
3	Автоматический выключатель	шт.	1,20
4	Автоматический выключатель	шт.	1,20
5	Автоматический выключатель	шт.	1,20
6	Автоматический выключатель	шт.	1,20
7	Автоматический выключатель	шт.	1,20
8	Автоматический выключатель	шт.	1,20
9	Автоматический выключатель	шт.	1,20
10	Автоматический выключатель	шт.	1,20
11	Автоматический выключатель	шт.	1,20
12	Автоматический выключатель	шт.	1,20
13	Автоматический выключатель	шт.	1,20
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15	Автоматический выключатель	шт.	1,20
16	Автоматический выключатель	шт.	1,20
17	Автоматический выключатель	шт.	1,20
18	Автоматический выключатель	шт.	1,20
19	Автоматический выключатель	шт.	1,20
20	Автоматический выключатель	шт.	1,20
21	Автоматический выключатель	шт.	1,20
22	Автоматический выключатель	шт.	1,20
23	Автоматический выключатель	шт.	1,20
24	Автоматический выключатель	шт.	1,20
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26	Автоматический выключатель	шт.	1,20
27	Автоматический выключатель	шт.	1,20
28	Автоматический выключатель	шт.	1,20
29	Автоматический выключатель	шт.	1,20
30	Автоматический выключатель	шт.	1,20

[pdf] Gencho Chokoev ЦЕНОВА ЛИСТА ЕЛЕКТРОАПАРАТУРА НИСКО НАПРЕЖЕНИЕ 412780 ДИН Таймер 16A 24h 1NO 15 минути минмален интервал БЕЗ рн 68747470733A2F2F646174612E6C64672D62672E636F6D2F66696C652FD0A6D0B5D0BDD0BED0B2D0B020D0BBD0B8D181D182D0B020D095D09DD09D20 68747470733A2F2F646174612E6C64672D62672E636F6D2F66696C652FD0A6D0B5D0BDD0BED0B2D0B020D0BBD0B8D181D182D0B020D095D09DD09D20 1528, . 29 Tel: 359 2 862 88 75, 359 2 862 78 71 Gsm: 359 884 204 284, e-mail: sales ldg-bg.co ... LCD , 16, 168 , 11 412630 //, 5 . 193.00 . 16 1NO 120 13 412794 , 100 , 1 16 1NO/INC 14 412795 240 ... lang:i-klngon score:12 filesize: 1.23 M page_count: 17 document date: 2024-10-24



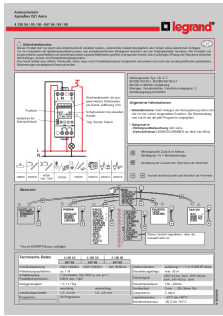
MicroRex T31 analog clock interface showing various settings and data.

[pdf] MicroRex T31 analoog dagklok zo wi Legrand Group E Catalog 20151002 115877 1 ecatalog nl documize 2015 10 ||| digitale schakelklokken Rex keuzetabel MODULAIRE SCHAKELKLOKKEN ECOREX EN MICROREX pag. 320 Refe ... ma 1 2 4126 ingssignaal 412654 Astronomisch 2 412657 Astronomisch 2 412629 Jaar multiprogramma astronomisch 2 4... lang:nl score:12 filesize: 2 M page_count: 1 document date: 2013-10-25



PROTECTION, CONTROL & MEASUREMENT PRICE LIST

[pdf] Price List Protection control measurement Products Legrand United Kingdom protection price list jan 2023 1 legrand co uk sites g files ocwmcrr866 05 ||| Effective 3rd Jan 2023 PROTECTION, CONTROL MEASUREMENT PRICE LIST POWERED BY SPECIALISTS Legrand ... 4 41256 412556 412602 412626 412631 412641 412654 412657 412780 412790 412794 412795 412812 412813 412872 412873 412900 4 lang:de score:12 filesize: 1.86 M page_count: 10 document date: 0000-00-00



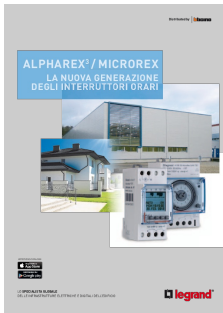
Legrand 412654 DIN Rail Timer Digital 4000W Efficient Automation Rapid Electronics12 3702m v1static rapidonline 12 v1 |||

[pdf] ManualLegrand 412654 DIN Rail Timer Digital 4000W Efficient Automation Rapid Electronics12 3702m v1static rapidonline 12 v1 ||| Astroschaltuhr AlphaRex D21 Astro 4 126 54 / 55 / 56 - 047 64 / 65 / 66 Sicherheitshinweise DE Dieses Produkt darf nur durch eine Gefahr eines elektrischen Schlages. Vor der Installation die Bedienungsanleitung lesen... lang:de score:11 filesize: 2.82 M page_count: 9 document date: 2012-03-29



PROTECTION, CONTROL & MEASUREMENT PRICE LIST

[pdf] Price List PD Industrial Price list June 2021 working file.xlsx dfellows Protection Control Measurement List 2024 legrand co uk sites g files ocwmcrr866 06 ||| Effective 6th June 2024 PROTECTION, CONTROL MEASUREMENT PRICE LIST POWERED BY SPECIALISTS Legran ... 4 41256 412556 412602 412626 412631 412641 412654 412657 412780 412790 412794 412795 412812 412813 412872 412873 412900 4 lang:de score:11 filesize: 2.68 M page_count: 10 document date: 2024-06-06



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[\[pdf\]](#) Accessories Catalog

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THE GLOBAL SPECIALIST IN ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES 20202021 MCBs, RCCBs and ... 14 4
603771 412631 412641 412872 412630 **412654** 412657 412795 003710 412631 Analogue time switches 24 Hour Program 1 chann
lang:en score:10 filesize: 15.21 M page_count: 366 document date: 2020-11-02



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Gebruiksaanleitung LEGR AlphaRex D21 astro 230V AC 412654 Adalbert Zajadacz GmbH Co KG 292568FI 04 assets legrand pim NP FT GT |||

Astro-kytkinkello AlphaRex3 D21 Astro 4 126 54 / 55 / 56 - 047 64 / 65 / 66 Turvallisuusohjeet Tmn tuotteen asennuksen saa suoritt
shkiskun vuoksi Vrnlainen asennus voi aiheuttaa tulipalo- ja hengenvaaran Laitetta ei saa ...

lang:fi score:10 filesize: 1.6 M page_count: 27 document date: 2020-02-04



[Tarif de Base HT - Octobre 2020 - Rexel](#)

Consultez le tarif de base HT d'octobre 2020 de Rexel, une liste complète de prix pour les produits électriques, de chauffage, de clim
lang:i-klngon score:10 filesize: 5.93 M page_count: 463 document date: 2020-10-07