Electronic relays (side tab, left and right)

Left page (4/12)

Electronic timing relays	Flow diagram

DILET

11 On-delayed — A1-A2, 15-18, LED

12 Off-delayed — A1-A2, Y1-Y2, 15-18, LED

16 On- and Off-delayed — A1-A2, Y1-Y2, 15-18, LED

82 Pulse shaping — A1-A2, Y1-Y2, 15-18, LED

On-Off function — A1-A2, 15-18, LED (OFF ON OFF)

ETR2…, ETR4…

11 On-delayed — A1-A2, 15-18, Power LED, Rel LED

12 Off-delayed — A1-A2, B1, 15-18, Power LED, Rel LED

16 On and off delayed — A1-A2, B1, 15-18, Power LED, Rel LED

44 Flashing, 2 speeds — A1-A2, A1-B1, 15-18, Rel LED, A1-B1, 15-18, Rel LED (t_1 t_2 …)

81 Pulse generating — A1-A2, 15-18, Power LED, Rel LED (0.5 s)

82 Pulse shaping — A1-A2, B1, 15-18, Power LED, Rel LED

ETR4-70…
A2/X1 linked

11 On-delayed — A1-A2, 15-18 (25-28), Power LED, Rel 1,2 LED

12 Off-delayed — A1-A2, B1, 15-18 (25-28), Power LED, Rel 1,2 LED

16 On- and Off-delayed — A1-A2, B1, 15-18 (25-28), Power LED, Rel 1,2 LED

82 Pulse shaping — A1-A2, B1, 15-18 (25-28), Power LED, Rel 1,2 LED

On-Off function — A1-A2, 15-18 (25-28), Power LED, Rel 1,2 LED (OFF ON OFF)

ETR4-70…
A2/X1 not linked

11 On-delayed — A1-A2, 15-18, 21-24, Power LED, Rel 1 LED, Rel 2 LED

12 Off-delayed — A1-A2, B1, 15-18, 21-24, Power LED, Rel 1 LED, Rel 2 LED

16 On- and Off-delayed — A1-A2, B1, 15-18, 21-24, Power LED, Rel 1 LED, Rel 2 LED

82 Pulse shaping — A1-A2, B1, 15-18, 21-24, Power LED, Rel 1 LED, Rel 2 LED

On-Off function — A1-A2, 15-18 (25-28), Power LED, Rel 1,2 LED (OFF ON OFF)

Right page (4/13)

21 Fleeting contact on energization — A1-A2, 15-18, LED

22 Fleeting contact on de-energization — A1-A2, Y1-Y2, 15-18, LED

42 Flashing, pulse initiating — A1-A2, 15-18, LED (t t …)

81 Pulse generating — A1-A2, 15-18, LED (0.5 s)

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21 Fleeting contact on energization — A1-A2, 15-18, Power LED, Rel LED

22 Fleeting contact on de-energization — A1-A2, B1, 15-18, Power LED, Rel LED

42 Flashing, pulse initiating — A1-A2, 15-18, LED

43 Flashing, pause initiating — A1-A2, 15-18, LED

51 Star-delta — A1-A2, 17-18, 17-28, Power LED, ⅄ LED, △ LED (t t u)

On-Off function — A1-A2, 15-18, Power LED, Rel LED (OFF ON OFF)

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21 Fleeting contact on energization — A1-A2, 15-18 (25-28), Power LED, Rel 1,2 LED

22 Fleeting contact on de-energization — A1-A2, B1, 15-18 (25-28), Power LED, Rel 1,2 LED

42 Flashing — A1-A2, 15-18 (25-28), Power LED, Rel 1,2 LED

81 Pulse generating — A1-A2, 15-18 (25-28), Power LED, Rel 1,2 LED (0.5 s)

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21 Fleeting contact on energization — A1-A2, 15-18, 21-24, Power LED, Rel 1 LED, Rel 2 LED

22 Fleeting contact on de-energization — A1-A2, B1, 15-18, 21-24, Power LED, Rel 1 LED, Rel 2 LED

42 Flashing — A1-A2, 15-18, 21-24, Power LED, Rel 1 LED, Rel 2 LED

81 Pulse generating — A1-A2, 15-18, 21-24, Power LED, Rel 1 LED, Rel 2 LED (0.5 s)

Circuitry and contact sequence diagrams for EMR4 and ESR → Installation
instructions (AWA) under www.moeller.net/support.
Search term
"EMR4" for Measuring and Monitoring Relays
"ESR4" for Safety relays

Flow diagrams, explanations

LED display

Time not running,
Contact 15-18 closed

Time running,
Contact 15-18 closed

Time running,
Contact 15-18 not closed