Technical Data
Shading Systems and Roller Shutter Control

Contacts	EGS12Z [b]	EGS12Z2 [b]	EGS61Z [b] MTR61 [b]	LRW12D/MSR12 [1]	MTR12/DCM12
Contact material/contact gap	$AgSnO_2$/0.5 mm	$AgSnO_2$/0.5 mm	$AgSnO_2$/0.5 mm	OptoMOS	$AgSnO_2$/0.5 mm
Spacing of control connections/contact	3 mm	3 mm	3 mm	3 mm/6 mm	3 mm
Test voltage as per VDE 0110 control connection/contact	2000 V	2000 V	2000 V	LRW12D: 2000 V MSR12: 4000 V	2000 V
Rated switching capacity	16 A/250 V AC	5 A/250 V AC	10 A/250 V AC	50 mA/8..230 V UC	5 A/250 V AC DCM: 90 W
Inductive laod cos φ = 0.6/230 V AC inrush current ≤ 35 A	650 W	650 W [2]	650 W	–	MTR12: 650 W [2]
Life at rated load, cos φ = 0.6	>4x10⁴	>4x10⁴	>4x10⁴	–	>4x10⁴
Switch position indication	WA and RV	WA and RV	–	LED	LED
Maximum conductor cross-section (3-fold terminal)	6 mm² (4 mm²)	6 mm² (4 mm²)	4 mm²	6 mm² (4 mm²)	6 mm² (4 mm²)
Two conductors of same cross-section (3-fold terminal)	2.5 mm² (1.5 mm²)	2.5 mm² (1.5 mm²)	1.5 mm²	2.5 mm² (1.5 mm²)	2.5 mm² (1.5 mm²)
Screw head	slotted /crosshead, pozidriv	slotted /crosshead, pozidriv	slotted /crosshead	slotted /crosshead, pozidriv	slotted /cross-head, pozidriv
Type of enclosure/terminals	IP50/IP20	IP50/IP20	IP30/IP20	IP50/IP20	IP50/IP20
Electronics					
Time on (also for central on/off)	100 %	100 %	100 %	100 %	100 %
Max./min. temperature at mounting location	+50 °C/-20 °C	+50 °C/-20 °C	+50 °C/-20 °C	+50 °C/-20 °C	+50 °C/-20 °C
Standby loss (active power) at 230 V	0.4 W	0.9 W	0.4 W	LRW12D: 0.5 W MSR12: –	MTR12: 0.5 W
Standby loss (active power) at 24 V	0.1 W	0.1 W	–	LRW12D: 0.1 W MSR12: 0.5 W	DCM12: 0.07 W
Standby loss (active power) at 12 V	0,05 W	0,05 W	–	LRW12D: 0,05 W MSR12: –	–
Control current A1 or A3-A8 at 12/24/230 V ±20%	0.05/0.11/0.7 mA	0.05/0.11/0.7 mA	–/–/0.7 mA	–	0.1/0.2/1 mA
Max. parallel capacitance (approx. length) of control lead at 230 V AC	0.06 µF (200 m)	0.06 µF (200 m)	0.3 µF (1000 m) MTR61: 0.06 µF (200 m)	–	0.3 µF (1000 m)
Min. command duration	50 ms	50 ms	50 ms	–	–

[b] Bistable relay as relay contact. Do not connect the switched consumer to the mains before the short automatic synchronisation after installation has terminated.

[1] After installation and after a power failure the multisensor needs approx. 1 minute before the wind sensor is active. During this process the outputs wind and sun of the MSR12-UC are blocked and 3 LEDs flash slowly.

[2] Inductive load cos φ = 0.6 as sum of both contacts 1000 W max.

If necessary, see the operating instructions of the appropriate shading elements for the maximum wind speed that can be set for the sensor relays.

m/s	4	6	8	10	12	14	16
km/h	14.4	21.6	28.8	36.0	43.2	50.4	57.6
Bft	3	4	4	5	6	7	7

Do not route measurement leads parallel to other electrical lines - measurement leads must be screened statically if longer than 10 m. For example JY-ST-Y. To extend leads use screw terminals and damp-proof connectors.

When selecting an installation site for light, wind and multi sensors, ensure that the sensors are not in the shadow of the objects being monitored.

Compliance with: EN 61000-6-3, EN 61000-6-1 and EN 60 669