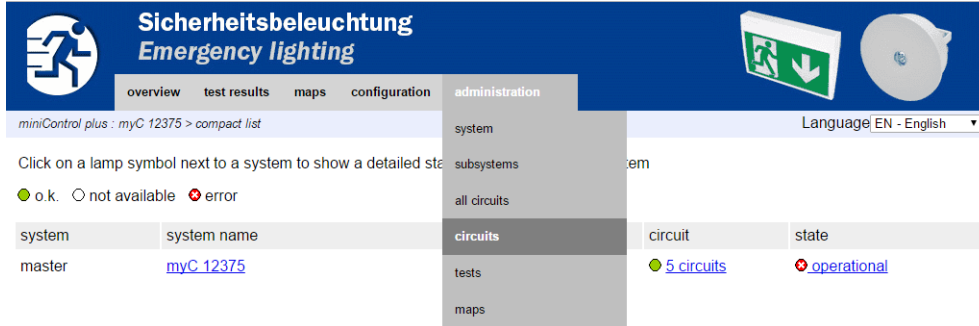


# SLS - Single Luminaire Switching

## Programming

The following instructions describe the programming of the ELS function.

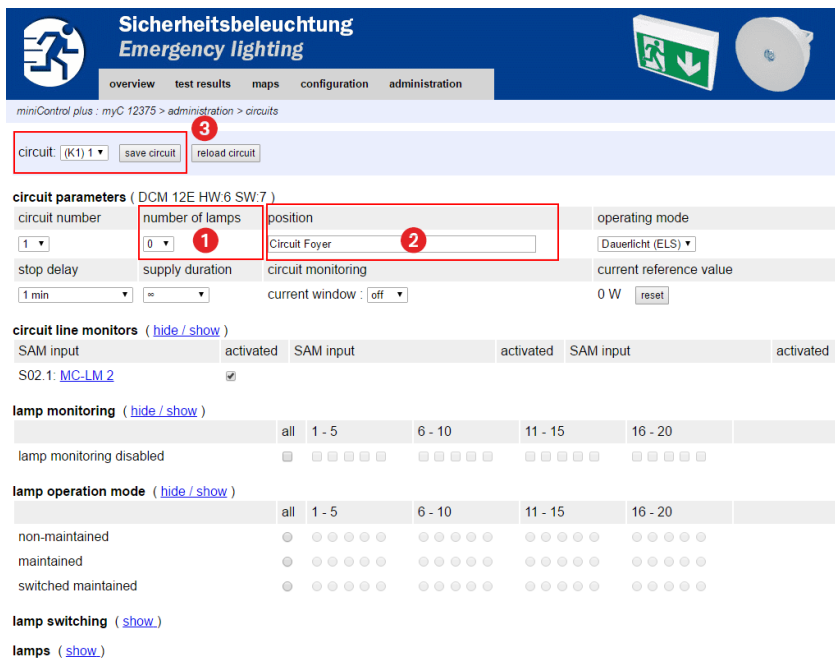
While the basic programming can be carried out via LC display, the ELS function can exclusively be programmed via Web interface.



Select ELS menu:

[system IP] → administration (drop-down menu) → circuits

Upon delivery: 192.168.005.026



- 1 programme the number of luminaires the correct number of luminaires has to be configured to activate the ELS function
- 2 enter the position of the circuit (optional)
- 3 save circuit the page will be reloaded after the saving process

Programming points 1 – 3 can be carried out via LC display. Please follow the documentation supplied with the system. Programming points 4 – 7 has to be done via Web interface.

# SLS - Single Luminaire Switching

## Programming

miniControl plus : myC 12375 > administration > circuits

circuit: (K1) 1   **7**

### circuit parameters ( DCM 12E HW:6 SW:7 )

circuit number	number of lamps	position	operating mode
1	20	Circuit Foyer	Dauerlicht (ELS)
stop delay	supply duration	circuit monitoring	current reference value
1 min	∞	current window : off	0 W <input type="button" value="reset"/>

### circuit line monitors ( [hide / show](#) )

SAM input	activated	SAM input	<b>4</b>	activated	SAM input	activated
S02.1: <a href="#">MC-LM 2</a>	<input checked="" type="checkbox"/>					

### lamp monitoring ( [hide / show](#) )

	all	1 - 5	6 - 10	11 - 15	16 - 20
lamp monitoring disabled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### lamp operation mode ( [hide / show](#) )

	all	1 - 5	6 - 10	11 - 15	16 - 20	<b>5</b>
non-maintained	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
maintained	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
switched maintained	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	

### lamp switching ( [hide](#) )

SAM input	single switching using SAM				
<input type="checkbox"/> hide unused inputs	all	1 - 5	6 - 10	11 - 15	16 - 20
S01.1: <a href="#">SAM 1 E1</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S01.2: <a href="#">SAM 1 E2</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S01.3: <a href="#">SAM 1 E3</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S01.4: <a href="#">SAM 1 E4</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S03.1: <a href="#">SAM 3 E1</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S03.2: <a href="#">SAM 3 E2</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S03.3: <a href="#">SAM 3 E3</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S03.4: <a href="#">SAM 3 E4</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S03.5: <a href="#">SAM 3 E5</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S03.6: <a href="#">SAM 3 E6</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S03.7: <a href="#">SAM 3 E7</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S03.8: <a href="#">SAM 3 E8</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- 4** circuit mains monitor (optional) – switches the complete circuit to mod. BS
- 5** programme luminaire operation mode
- 6** luminaire switching – allocation of the SAM inputs  
(optional and only possible with switched maintained lighting and installed SAM24)<sup>1</sup>
- 7** save circuit the page will be reloaded after the saving process

<sup>1</sup> A maximum of 6 different commands for the luminaire switching and circuit mains monitor are programmable

# SLS - Single Luminaire Switching

## Programming

Below several examples for programming the ELS function are illustrated.

### 1. Programming example: Mixed operation circuit with maintained (DS) & non-maintained luminaires (BS)

circuit: (K1) 1 ▾

**circuit parameters** (DCM 12E HW:6 SW:7)

circuit number	number of lamps	position	operating mode
1 ▾	20 ▾	<input type="text" value="Circuit Foyer"/>	Dauerlicht (ELS) ▾
stop delay	supply duration	circuit monitoring	current reference value
1 min ▾	∞ ▾	current window : off ▾	0 W <input type="button" value="reset"/>

**circuit line monitors** ([hide / show](#))

SAM input	activated	SAM input	activated	SAM input	activated
S02.1: <a href="#">MC-LM 2</a>	<input type="checkbox"/>				

**lamp monitoring** ([hide / show](#))

	all	1 - 5	6 - 10	11 - 15	16 - 20
lamp monitoring disabled	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

**lamp operation mode** ([hide / show](#))

	all	1 - 5	6 - 10	11 - 15	16 - 20
non-maintained	<input type="radio"/>	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
maintained	<input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
switched maintained	<input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>

**lamp switching** ([show](#))

**lamps** ([show](#))

Mixed operation circuit: both maintained as well as non-maintained luminaires are operated in the circuit. The circuit is permanently energised, the maintained luminaires are permanently switched on, and the non-maintained luminaires are only switched on in testing or emergency operation (mod. BS/battery operation).

The circuit is configured as maintained lighting circuit.

In this programming example a switching of single luminaires or the complete circuit is not possible.

The circuit can only be switched on or off via BAS (0/1) or MCT (DS ON/OFF – not in emergency operation!). Both functions switch all circuits in the system.

**Note:** As the luminaires are switched off through a signal, make sure that the circuit is energised.

# SLS - Single Luminaire Switching

## Programming

### 2. Programming example: maintained lighting circuit with switchable maintained luminaires (gDS)

circuit: (K1) 1

**circuit parameters** ( DCM 12E HW:6 SW:7 )

circuit number	number of lamps	position	operating mode
1	20	Circuit Foyer	Dauerlicht (ELS)
stop delay	supply duration	circuit monitoring	current reference value
1 min	∞	current window : off	0 W <input type="button" value="reset"/>

**circuit line monitors** ( [hide / show](#) )

SAM input	activated	SAM input	activated	SAM input	activated
S02.1: <a href="#">MC-LM 2</a>	<input type="checkbox"/>				

**lamp monitoring** ( [hide / show](#) )

	all	1 - 5	6 - 10	11 - 15	16 - 20
lamp monitoring disabled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**lamp operation mode** ( [hide / show](#) )

	all	1 - 5	6 - 10	11 - 15	16 - 20
non-maintained	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
maintained	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
switched maintained	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**lamp switching** ( [hide](#) )

SAM input	single switching using SAM				
<input type="checkbox"/> hide unused inputs	all	1 - 5	6 - 10	11 - 15	16 - 20
S01.1: <a href="#">SAM 1 E1</a>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Maintained lighting circuit: the circuit is permanently energised, maintained luminaires are operated in the circuit. The circuit is configured as maintained lighting. In this example all maintained luminaires are switched on or off through a SAM command (gDS). The circuit remains energised, the SAM command does not de-energise it. When the gDS luminaires are switched off by the SAM, they function like a non-maintained luminaire – switched off in normal operation (ready-to-operate), switched on in testing or emergency operation (mod. BS/battery operation).

The circuit can only be switched on or off via BAS (0/1) or MCT (DS ON/OFF – not in emergency operation!). Both functions switch all circuits in the system.

**Note:** As the luminaires are switched off through a signal, make sure that the circuit is energised.

# SLS - Single Luminaire Switching

## Programming

### 3. Programming example: maintained lighting circuit with non-maintained luminaires (BS)

circuit: (K1) 1

**circuit parameters** ( DCM 12E HW:6 SW:7 )

circuit number	number of lamps	position	operating mode
1	20	Circuit Foyer	Dauerlicht (ELS)
stop delay	supply duration	circuit monitoring	current reference value
1 min	∞	current window : off	0 W <input type="button" value="reset"/>

**circuit line monitors** ( [hide](#) / [show](#) )

SAM input	activated	SAM input	activated	SAM input	activated
S02.1: <a href="#">MC-LM 2</a>	<input checked="" type="checkbox"/>				

**lamp monitoring** ( [hide](#) / [show](#) )

	all	1 - 5	6 - 10	11 - 15	16 - 20
lamp monitoring disabled	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

**lamp operation mode** ( [hide](#) / [show](#) )

	all	1 - 5	6 - 10	11 - 15	16 - 20
non-maintained	<input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
maintained	<input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
switched maintained	<input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>

**lamp switching** ( [show](#) )

**lamps** ( [show](#) )

Maintained lighting circuit: the circuit is permanently energised, the maintained luminaires are switched on only in testing or emergency operation (mod. BS/battery operation). This programming example does not show maintained luminaires. The circuit is configured as maintained lighting circuit.

The circuit can only be switched on or off via BAS (0/1) or MCT (DS ON/OFF – not in emergency operation!). Both functions switch all circuits in the system.

**Note:** As the luminaires are switched off through a signal, make sure that the circuit is energised.

# SLS - Single Luminaire Switching

## Programming

### 4. Programming example: maintained lighting circuit with maintained luminaires (DS)

circuit: (K1) 1

**circuit parameters** ( DCM 12E HW:6 SW:7 )

circuit number	number of lamps	position	operating mode
1	20	Circuit Foyer	Dauerlicht (ELS)
stop delay	supply duration	circuit monitoring	current reference value
1 min	∞	current window : off	0 W <input type="button" value="reset"/>

**circuit line monitors** ( [hide](#) / [show](#) )

SAM input	activated	SAM input	activated	SAM input	activated
S02.1: <a href="#">MC-LM 2</a>	<input checked="" type="checkbox"/>				

**lamp monitoring** ( [hide](#) / [show](#) )

	all	1 - 5	6 - 10	11 - 15	16 - 20
lamp monitoring disabled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**lamp operation mode** ( [hide](#) / [show](#) )

	all	1 - 5	6 - 10	11 - 15	16 - 20
non-maintained	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
maintained	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
switched maintained	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**lamp switching** ( [show](#) )

**lamps** ( [show](#) )

Maintained lighting circuit: the circuit is permanently energised, maintained luminaires are operated in the circuit. The circuit is configured as maintained lighting circuit. In this programming example the maintained luminaires are switchable neither individually nor completely.

The circuit can only be switched on or off via BAS (0/1) or MCT (DS ON/OFF – not in emergency operation!). Both functions switch all circuits in the system.

# SLS - Single Luminaire Switching

## Programming

### 5. Programming example: Mixed operation circuit with maintained (DS), non-maintained (BS) and switched maintained luminaires (gDS)

circuit: (K1) 1

**circuit parameters** ( DCM 12E HW:6 SW:7 )

circuit number	number of lamps	position	operating mode
1	20	Circuit Foyer	Dauerlicht (ELS)
stop delay	supply duration	circuit monitoring	current reference value
1 min	∞	current window : off	0 W <input type="button" value="reset"/>

**circuit line monitors** ( [hide / show](#) )

SAM input	activated	SAM input	activated	SAM input	activated
S02.1: <a href="#">MC-LM 2</a>	<input checked="" type="checkbox"/>				

**lamp monitoring** ( [hide / show](#) )

	all	1 - 5	6 - 10	11 - 15	16 - 20
lamp monitoring disabled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**lamp operation mode** ( [hide / show](#) )

	all	1 - 5	6 - 10	11 - 15	16 - 20
non-maintained	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
maintained	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
switched maintained	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

**lamp switching** ( [hide](#) )

SAM input	single switching using SAM				
<input type="checkbox"/> hide unused inputs	all	1 - 5	6 - 10	11 - 15	16 - 20
S01.1: <a href="#">SAM 1 E1</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S01.2: <a href="#">SAM 1 E2</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S01.3: <a href="#">SAM 1 E3</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
S01.4: <a href="#">SAM 1 E4</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Mixed operation circuit: both maintained and non-maintained luminaires are operated in the circuit. The circuit is permanently energised, the maintained luminaires are permanently switched on, the non-maintained luminaires are only switched on in testing or emergency operation (mod. BS/battery operation).

The circuit is configured as maintained lighting circuit.

In addition to the "simple" mixed operation mode, in this programming example selected luminaires can be switched individually (SAM 1 E2-E4) or as a group (SAM 1 E1). The maintained and non-maintained luminaires are not affected by these switch commands and remain in their programmed operation mode, as the circuit remains energised. The circuit is not de-energised through SAM commands.

Additionally, a mains monitoring function is programmed in this example. Irrespective of the programmed luminaire operation mode or the state of the gDS luminaires (SAM DS on/off), all luminaires are switched to emergency operation (mod. BS). If the circuit is switched via MCT DS OFF, the luminaires are also switched to emergency operation.

The circuit can only be switched on or off via BAS (0/1) or MCT (DS ON/OFF – not in emergency operation!). Both functions switch all circuits in the system.

**Note:** As the luminaires are switched off through a signal, make sure that the circuit is energised.

# SLS - Single Luminaire Switching

## Programming

### trouble shooting

luminaires cannot be switched

check system requirements (see preface)

check switch voltage on the SAM input

SAM24 not recognised/detected:

- Addressing (double allocation of an address via turn coding switch is prohibited!)
- check detection function of the SAM24

SAM24 cannot be detected

check voltage on the SAM24 (voltage range COM-Port +9V to +24V to GND, Error LED on the SAM24 must not shine, ONLY LED OK)

check addressing of the SAM24 (double allocation of an address via turn coding switch is prohibited!)

input mask for ELS is not shown

built-in / detected DCM is not a DCM12E but DCM32/42/62

DCM12E are not detected correctly (some are missing)

module detection has to be carried out in charging operation, when using DCM12E

MLED/MU05 remains permanently in emergency operation

mains monitor function wrongly switched or set up