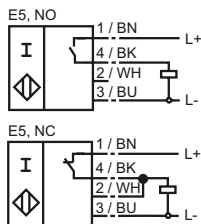
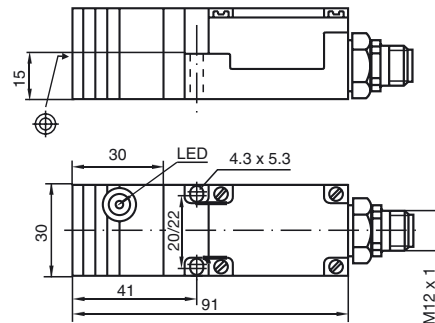


**Model Number**

NCN15-M1K-E5-V1

**Features**

- Comfort series
- 15 mm not embeddable
- 3-wire DC
- Surface mount

**Connection****Dimensions****Technical Data****General specifications**

Switching element function	PNP	NO/NC
Rated operating distance	$s_n$	15 mm
Installation		not embeddable
Output polarity		DC
Assured operating distance	$s_a$	0 ... 12.15 mm
Reduction factor $r_{AI}$		0.38
Reduction factor $r_{Cu}$		0.36
Reduction factor $r_{V2A}$		0.7

**Nominal ratings**

Operating voltage	$U_B$	10 ... 60 V DC
Switching frequency	$f$	0 ... 500 Hz
Hysteresis	$H$	1 ... 10 typ. 4 %
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 3$ V
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C
No-load supply current	$I_0$	$\leq 14$ mA
Operating voltage display		LED, green
Indication of the switching state		LED, yellow

**Ambient conditions**

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

**Mechanical specifications**

Connection type	Device connector M12 x 1, 4-pin
Housing material	PBT
Sensing face	PBT
Protection degree	IP67

**Compliance with standards and directives**

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

**Approvals and certificates**

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Products with a maximum operating voltage of $\leq 36$ V do not bear a CCC marking because they do not require approval.