



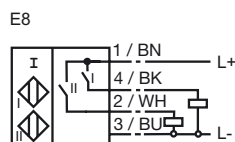
### Model Number

NBN3-F25-E8-K

### Features

- For installation in housing
- Pluggable cage clamp terminals
- Satisfies machinery directive

### Connection



### Accessories

#### BT32

#### BT32XS

Activator for F25 series

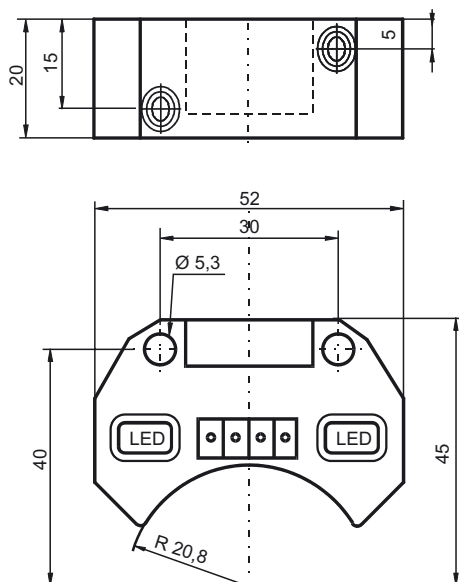
#### BT32XAS

Activator for F25 series

#### BT33

#### BT34

### Dimensions



### Technical Data

#### General specifications

Switching element function	PNP	Dual NO
Rated operating distance	$s_n$	3 mm
Installation		embeddable mountable
Output polarity		DC
Assured operating distance	$s_a$	0 ... 2.43 mm
Reduction factor $r_{Al}$		0.5
Reduction factor $r_{Cu}$		0.4
Reduction factor $r_{303}$		1
Reduction factor $r_{St37}$		1.1

#### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	0 ... 500 Hz
Hysteresis	$H$	typ. 5 %
Reverse polarity protected		all connections
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	$I_0$	$\leq 25$ 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	MINI-COMBICON
Core cross-section (system side)	up to 2.5 mm <sup>2</sup>
Housing material	PBT
Sensing face	PBT
Protection degree	IP20
Tightening torque, fastening screws	M5 x 25 : 2.7 Nm
Note	Installation in housing

#### 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.